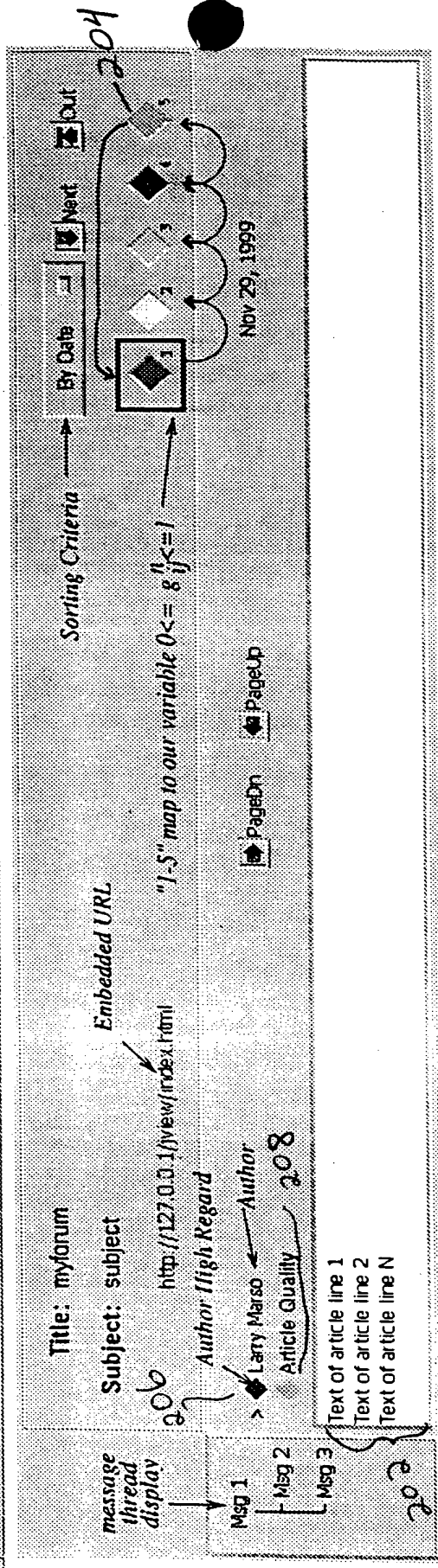
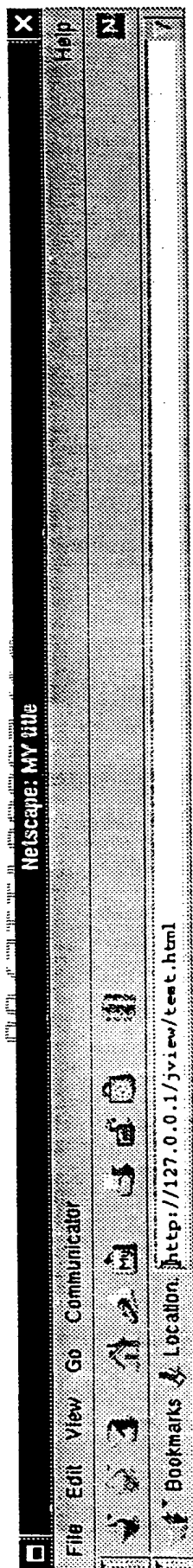


Fig. 1



The code below will push an HTML page which will be displayed

↑ Fig. 2(a)

### test

(9)  $\epsilon \cdot \delta \cdot \gamma \uparrow$

*"Single Click Rating" -- One diamond highlighted per second, with box moving sequentially to the right and wrapping from 5 back to 1.*

*Pattern repeats until any keystroke, mouse movement or click, or voice command selects currently highlighted rating and proceeds to next item, next thread, out or elsewhere as appropriate.*

*"Rate while you Navigate" -- One diamond highlighted per second, with box moving sequentially to the right and wrapping from 5 back to 1. Pattern repeats until keystroke or mouse movement/click instructs interface to go to next item, next thread, or elsewhere thus selecting the currently highlighted rating.*

"Single keystroke/click Rate/Navigate" -- No highlighting of diamonds. User either clicks on the appropriate diamond, or presses one of keys 1,2,3,4 or 5 (either on number row, or from keypad) to both select rating for article and to go to next article, next thread, out, or elsewhere as appropriate.

Figure 2.1 shows a screenshot of a Netscape browser window displaying the Harbor Freight Tools website. The browser's address bar shows the URL: <http://www.harborfreight.com>. The website's navigation bar includes links for File, Edit, View, Go, Communicator, and Help. The main content area features a large banner for "Welcome To Harbor Freight Tools" with a sub-header "Your Source For The Best Quality Tools At The Lowest Prices Guaranteed!!". Below this, a section titled "Over 350 items on SALE up to 80% off!" is displayed, accompanied by an image of a power drill. To the right of the sale section, a list of navigation links is provided: "Navigation & Rating", "Alternate Embodiments", "Single Click Rating", "Rate while you Navigate", and "Single keystroke/click Rate/Navigate". Further down, a section titled "16 SPEED FLOOR DRILL PRESS" is shown, featuring an image of the drill press and a description: "All-purpose drill press for the home or shop. Heavy duty ball bearing motor with 16 speeds, adjustable stop and gauge." The item number "583-3VGA" is listed, along with the original price "\$284.99" and the sale price "\$199.99". The bottom of the page contains a "Special Offer!" for "ONE-BAND OPERATION AUTO ADJUSTING PLIERS" priced at "\$5.99" (item 39746-2VGA), an "AUCTION" section for Harbor Freight Tools, and a "Free Catalog" link. The browser's status bar at the bottom indicates the current location: <http://127.0.0.1/~brion/offsite.html>.

Navigation & Rating  
Alternate Embodiments  
"Single Click Rating"  
"Rate while you Navigate"  
"Single keystroke/click Rate/Navigate"

Welcome To Harbor Freight Tools  
Your Source For The Best Quality Tools At The Lowest Prices Guaranteed!!

Over 350 items on SALE  
up to 80% off!

16 SPEED FLOOR DRILL PRESS

All-purpose drill press for the home or shop. Heavy duty ball bearing motor with 16 speeds, adjustable stop and gauge.

Item No. 583-3VGA  
\$284.99  
\$199.99

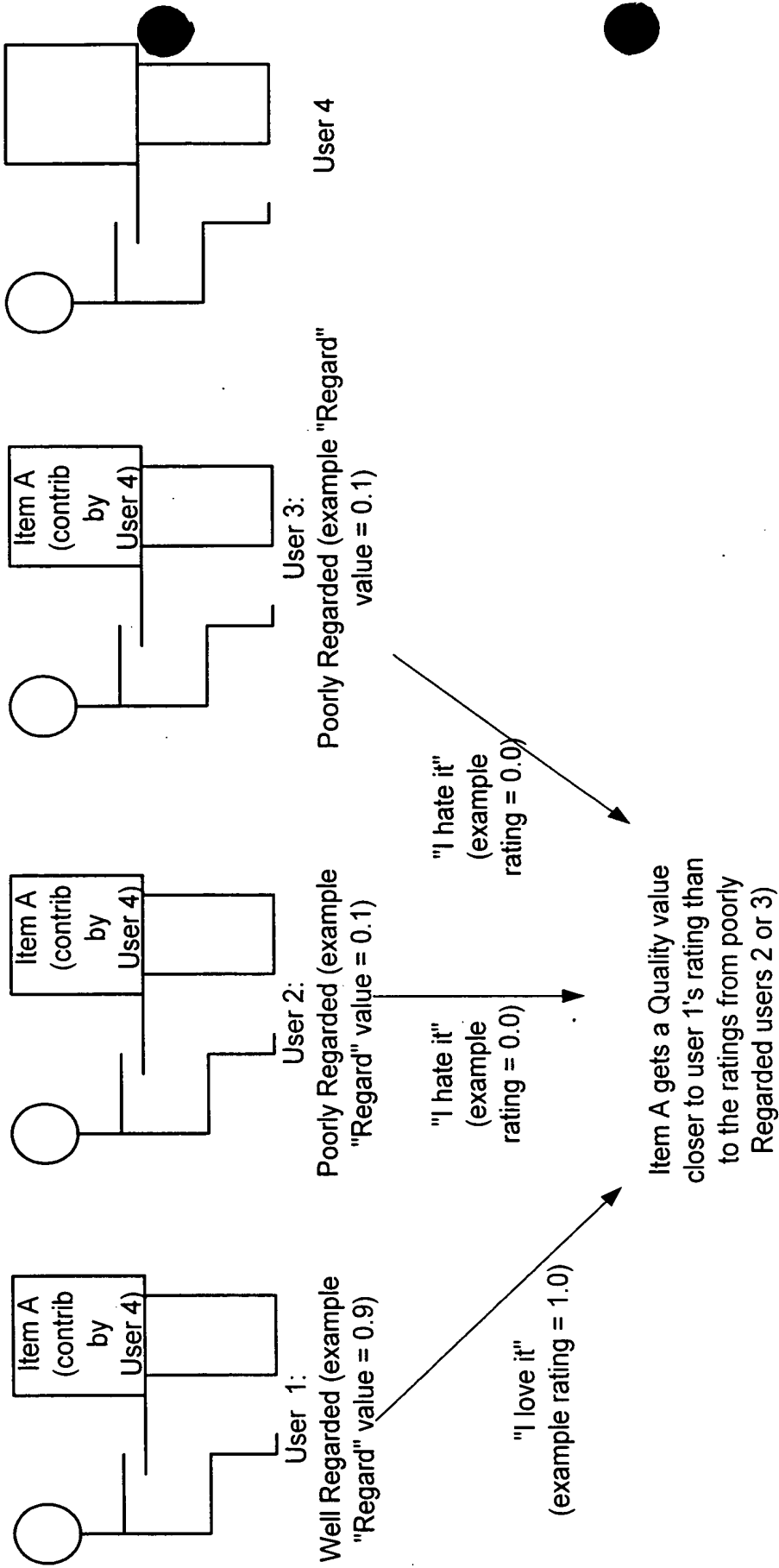
Special Offer!  
ONE-BAND OPERATION  
AUTO ADJUSTING  
PLIERS  
\$5.99  
ITEM 39746-2VGA

HARBOR FREIGHT TOOLS  
AUCTION

For special sale  
information, new products  
and more, enter your email  
address here

Home  
Search  
Clearance Items  
Free Catalog

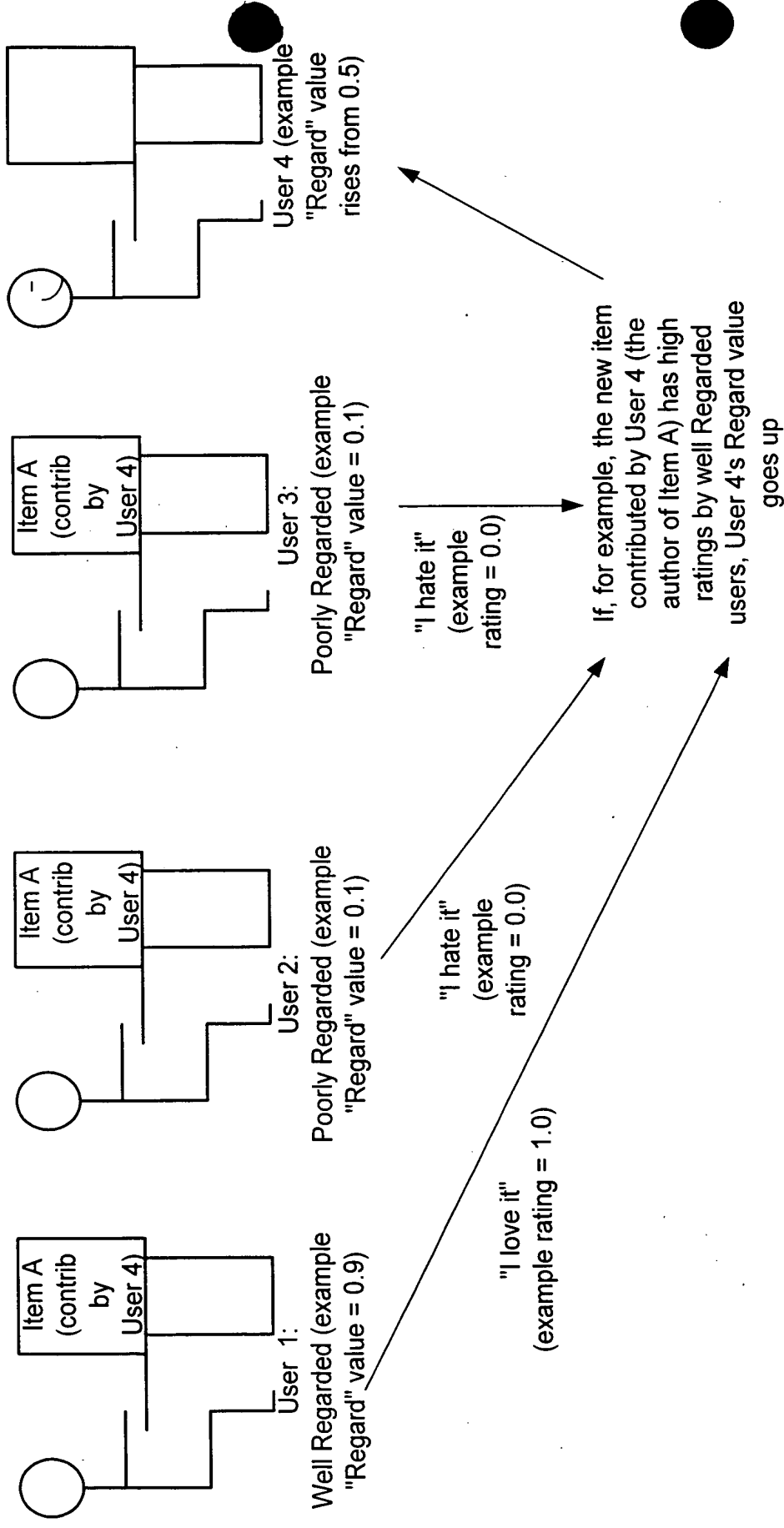
Note: These are the only users



The ratings contributed by all users are not equally valued

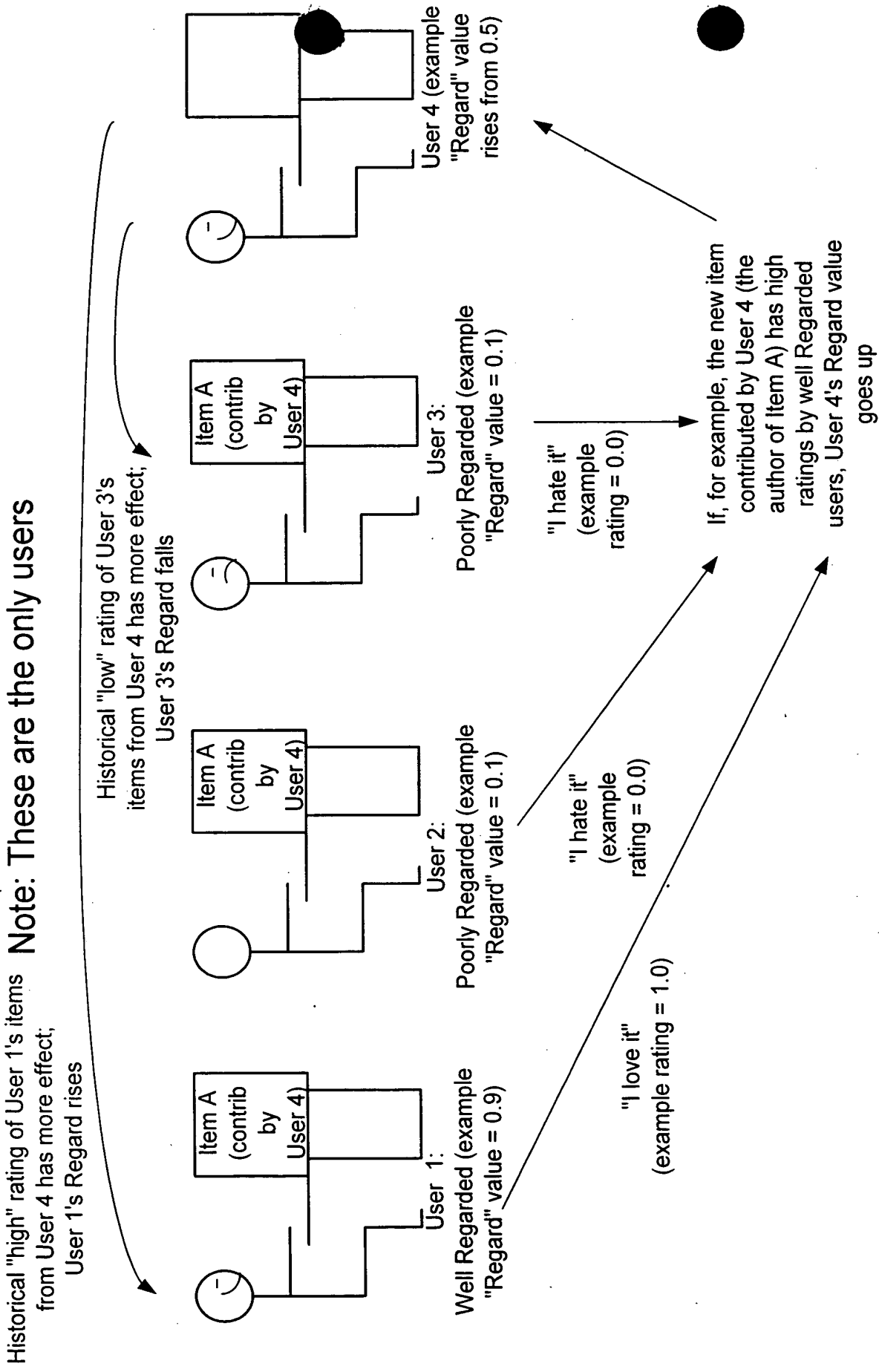
Fig. 3

Note: These are the only users



A user's Regard value is affected by how other users rate the items the user contributes and by the Regard values of the users assigning the ratings

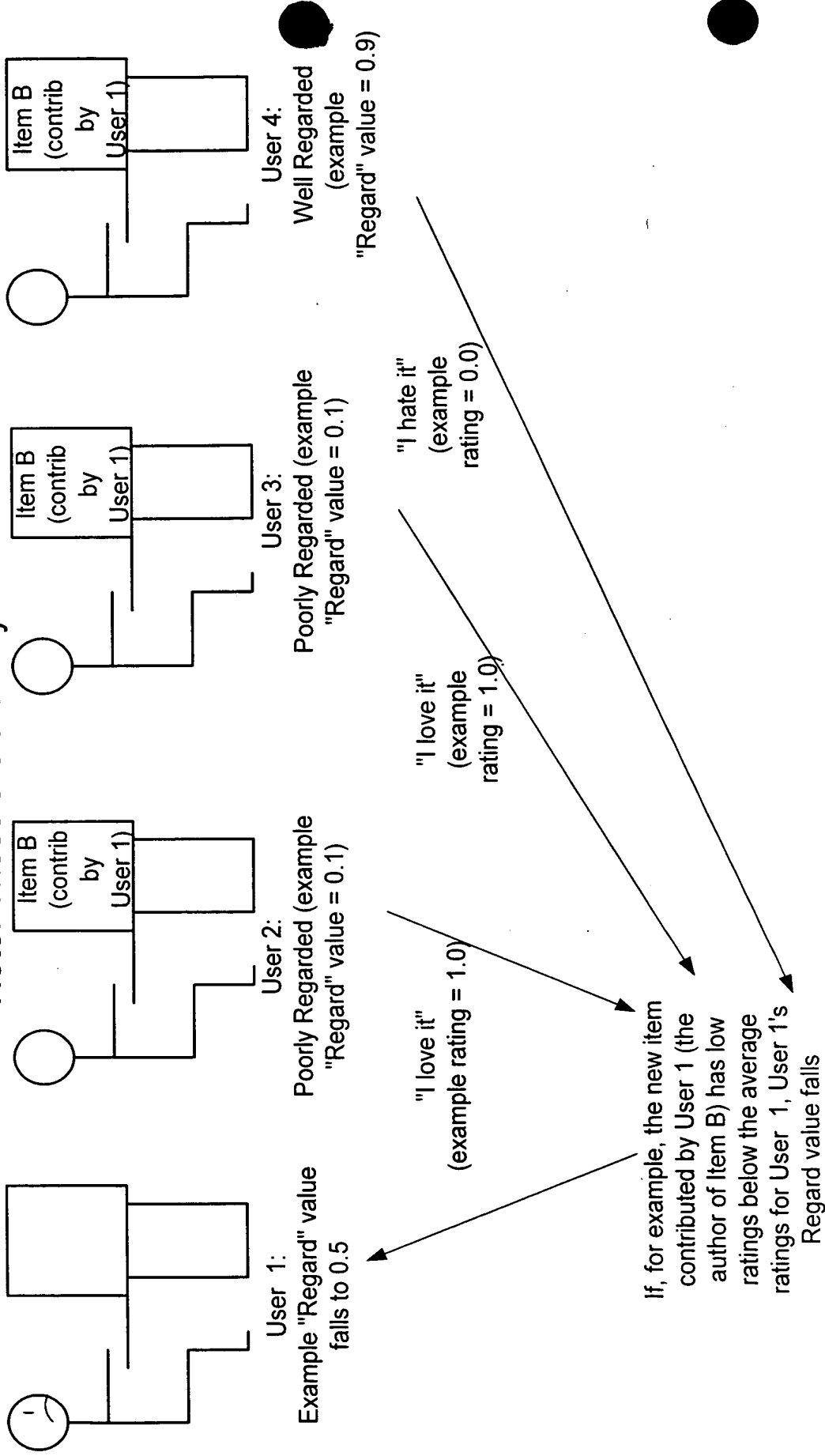
Fig. 4(a)



A user's Regard value affects the Regard of others whose items he has rated and affects the Quality of their items

Fig. 4(b)

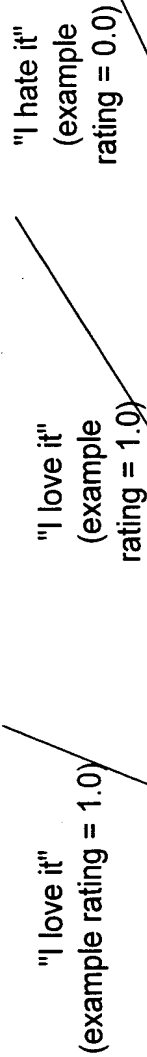
Note: These are the only users



A user's Regard value is affected by how other users rate the items he contributes and by the Regard values of those users

Fig. 5(a)

Historical "low" rating of User 2's items from User 1 has less effect;  
User 2's Regard rises



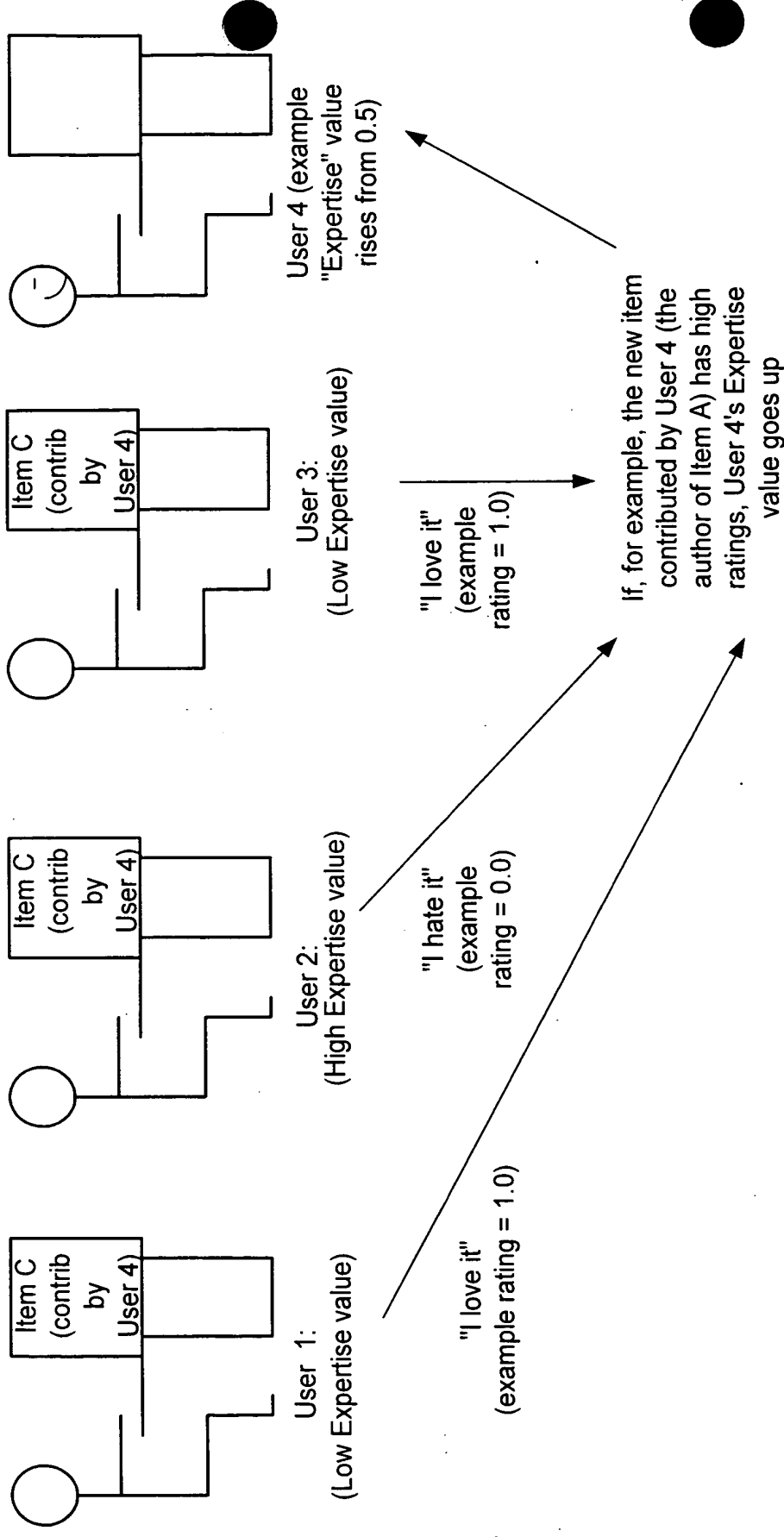
If, for example, the new item contributed by User 1 (the author of Item B) has low ratings below the average ratings for User 1, User 1's Regard value falls

A user's Regard value is affected by how other users rate the items he contributes and by the Regard values of those users

**Fig. 5(b)**

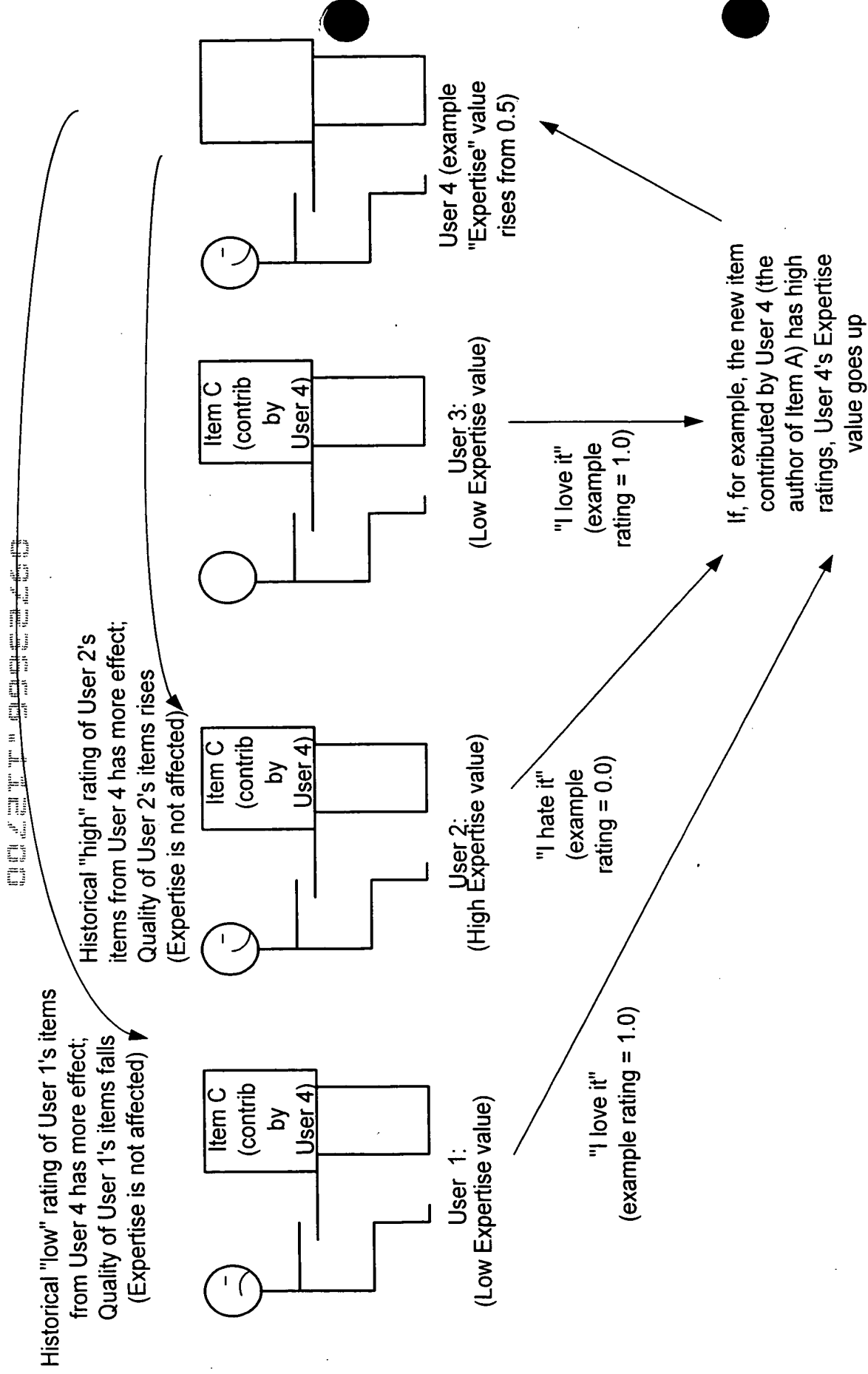


Note: These are the only users



A user's Expertise value is affected by how other users rate the items he contributes (but not by the Expertise value of those users)

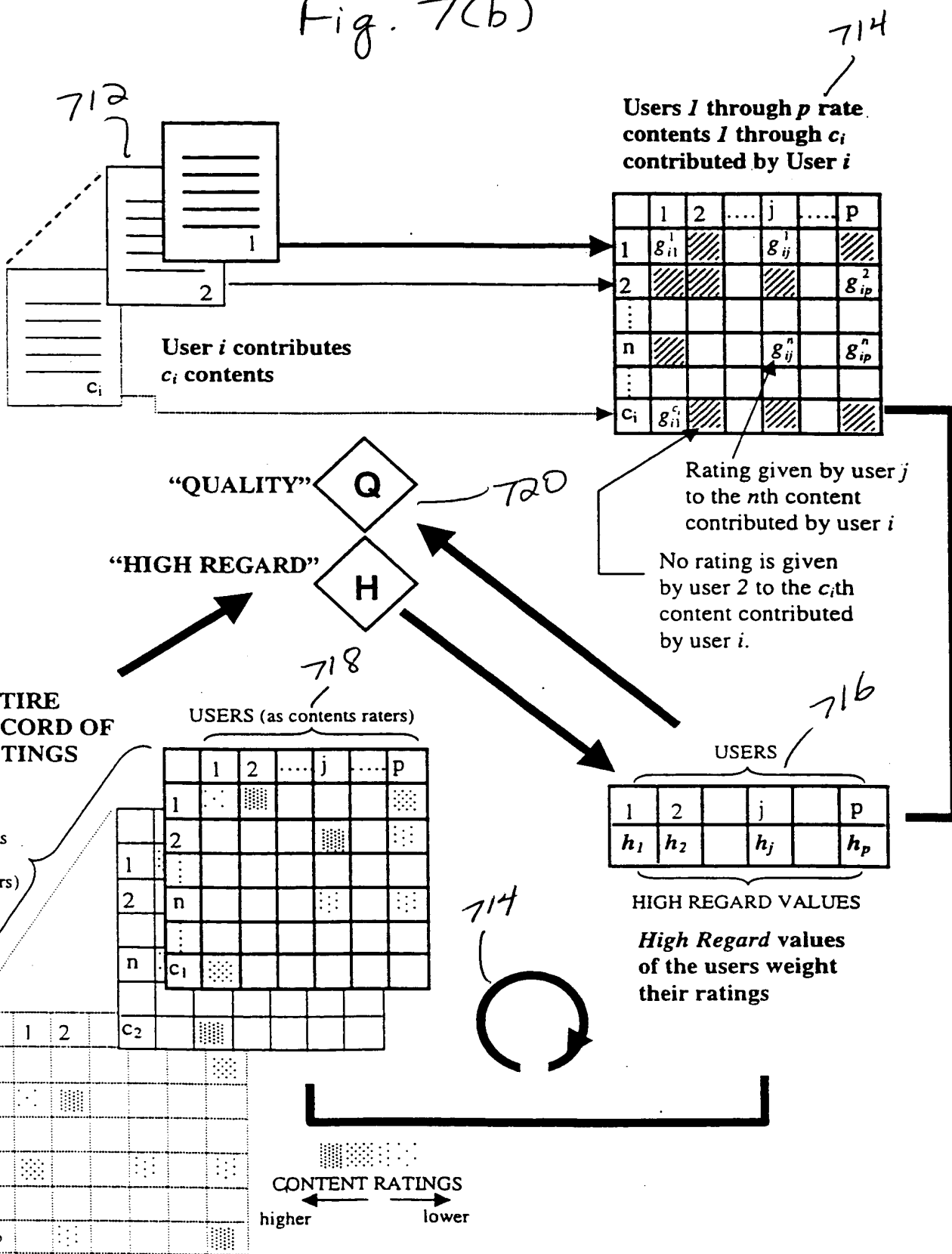
Fig. 6(a)



A user's Expertise value is affected by how other users rate the items he contributes (but not by the Expertise value of those users)

Fig. 6(b)

Fig. 7(b)



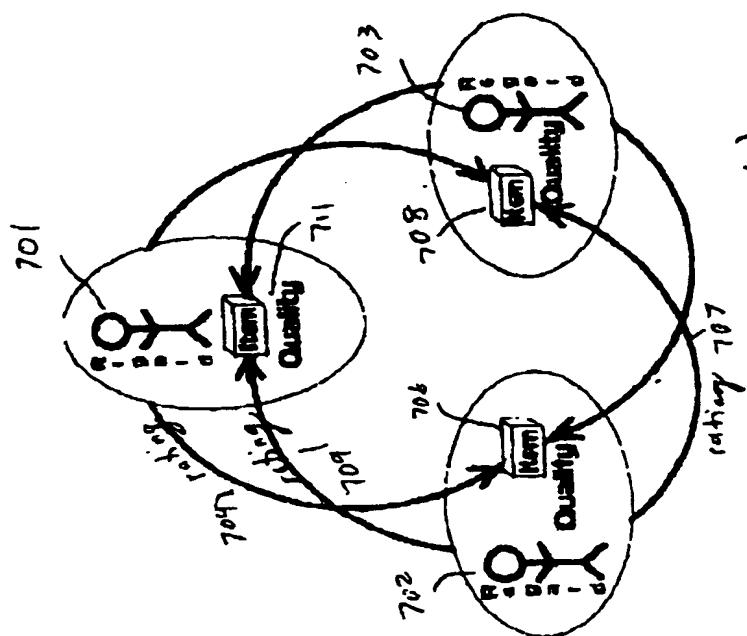


Fig 7(a)

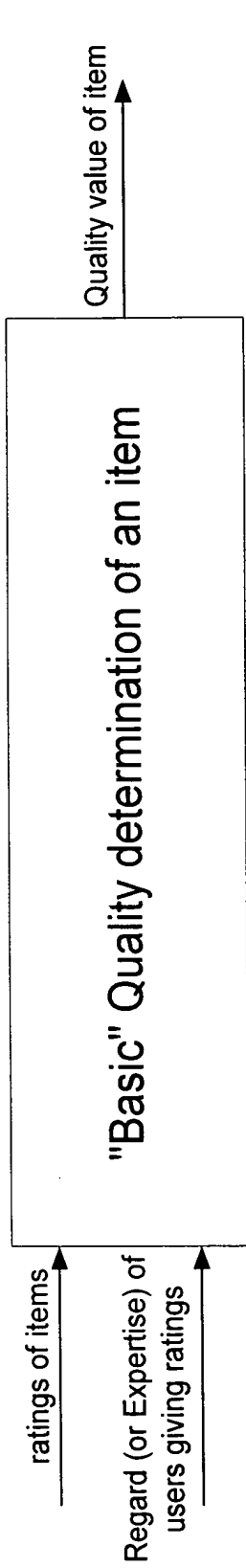


Fig. 7(c)

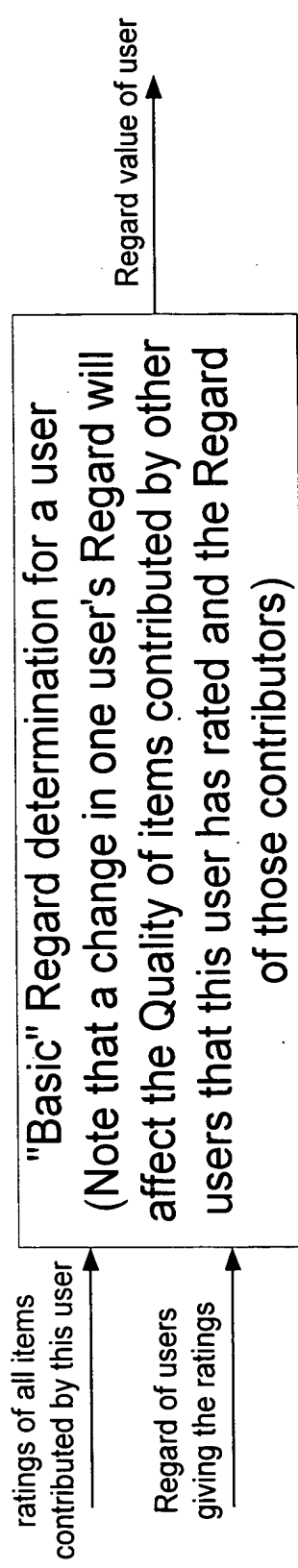


Fig. 7(d)

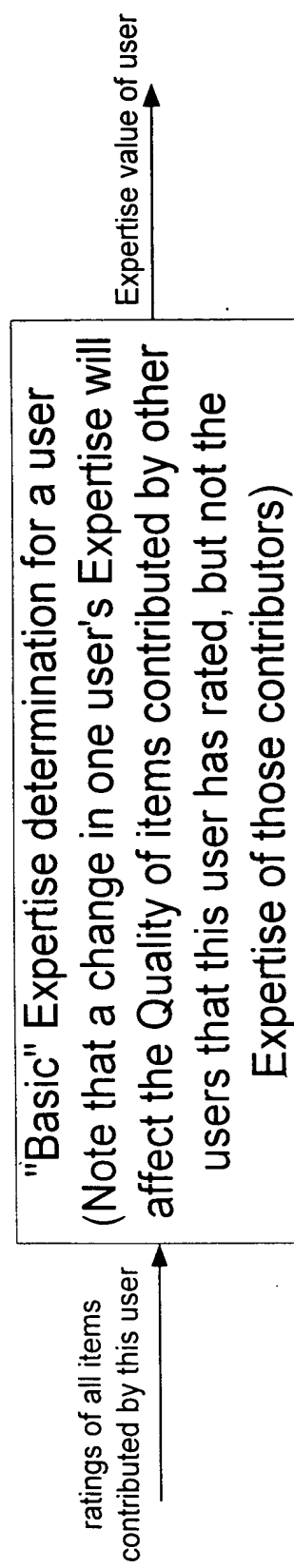


Fig. 7(e)

# High Regard Inertia Model

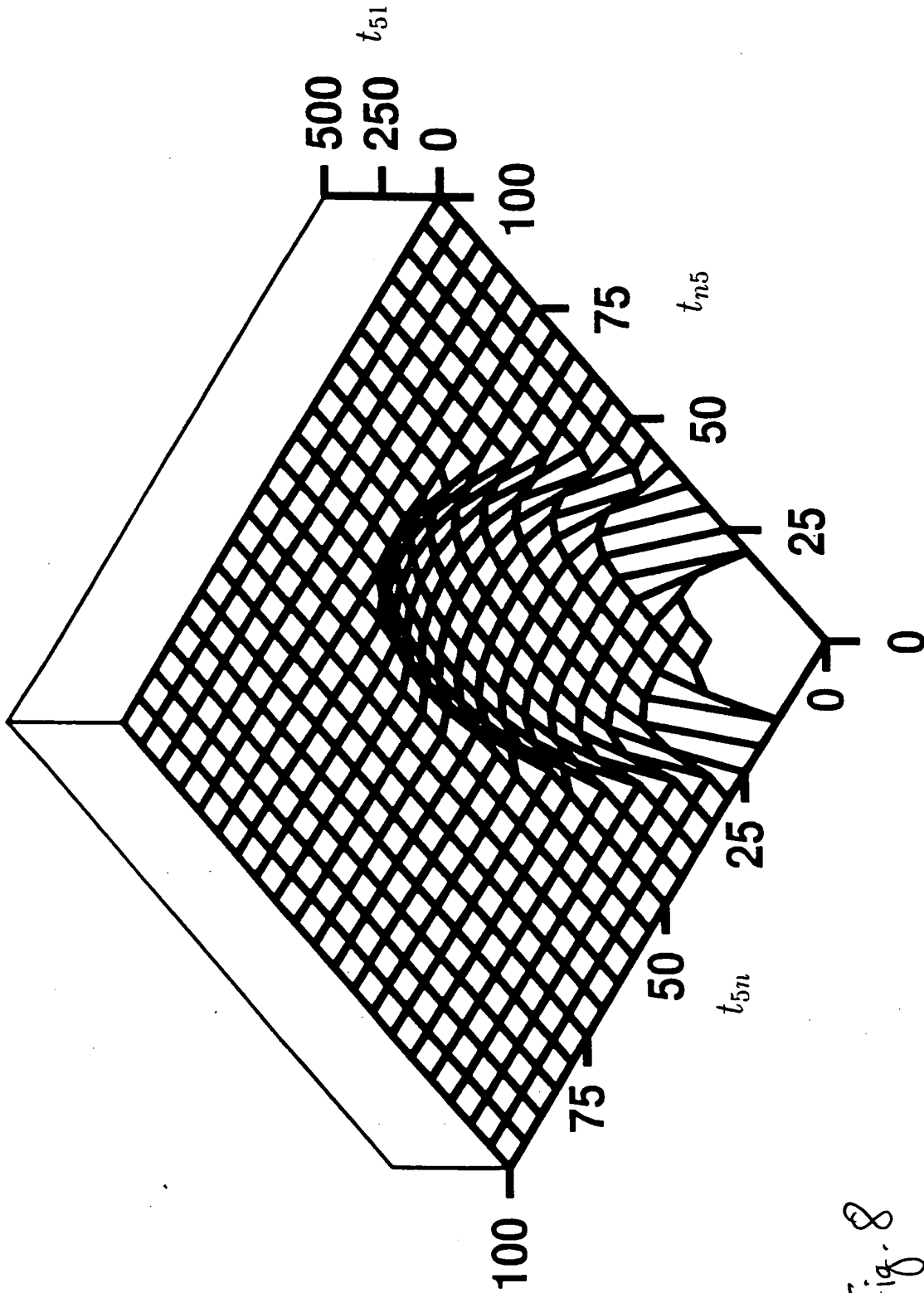


Fig. 8

$$t_{51} = \max \left\{ 0, 500 - \left( \frac{1}{4} \sum_{n=2}^p t_{5n} + \frac{1}{3} \sum_{n=2}^p t_{n5} - \sqrt[4]{\frac{1}{2} \sum_{n=2}^p t_{5n} \times \sum_{n=2}^p t_{n5}} \right) \right\}$$

# Quality Inertia Model

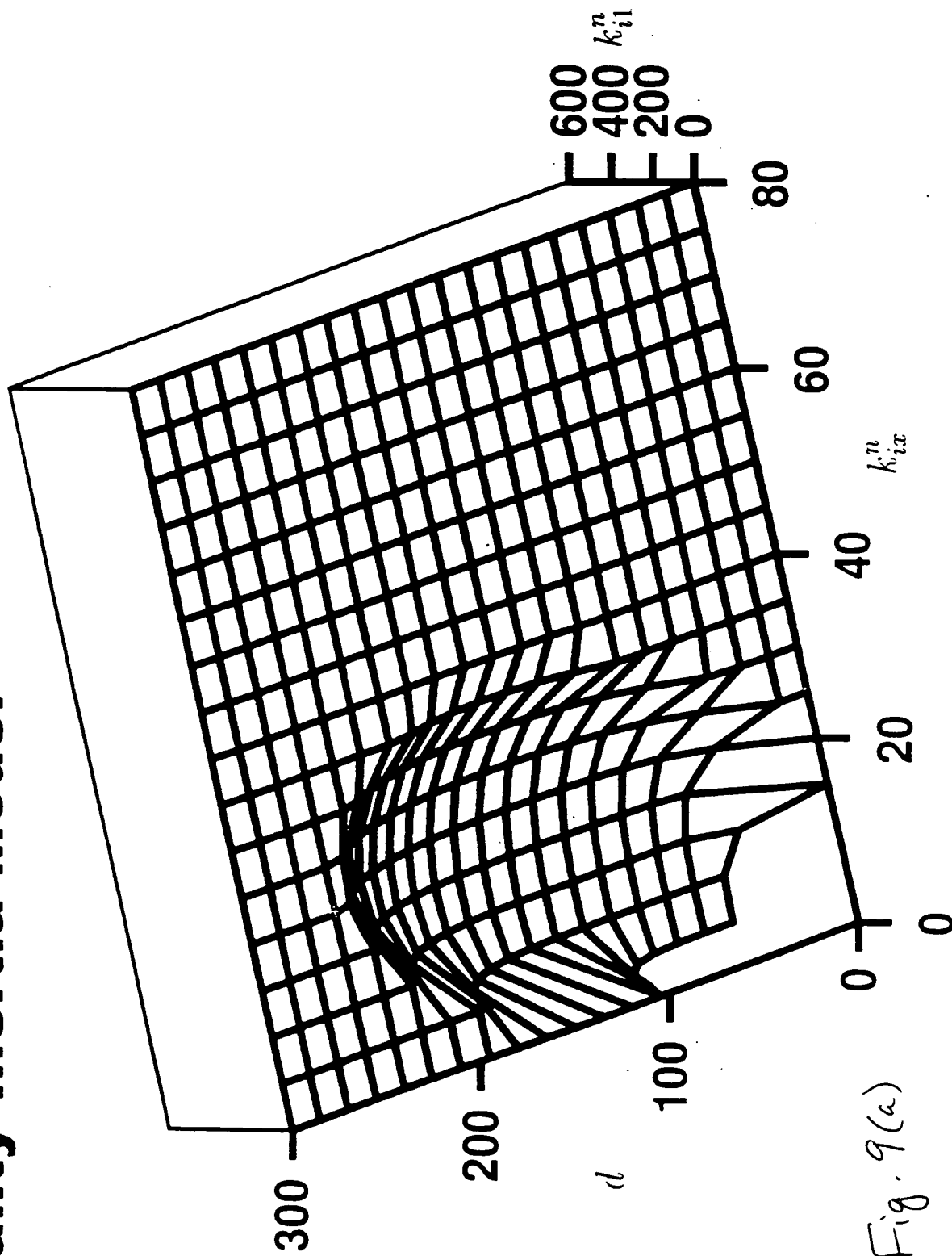


Fig. 9(a)

$$k_{i1}^n = \max \left\{ 1, 600 - \left( \frac{1}{3} \sum_{x=2}^p k_{ix}^n + \frac{d}{20} - \sqrt{\frac{d}{25} \sum_{x=2}^p k_{ix}^n} \right)^4 \right\}$$

# Segmented Decay Model

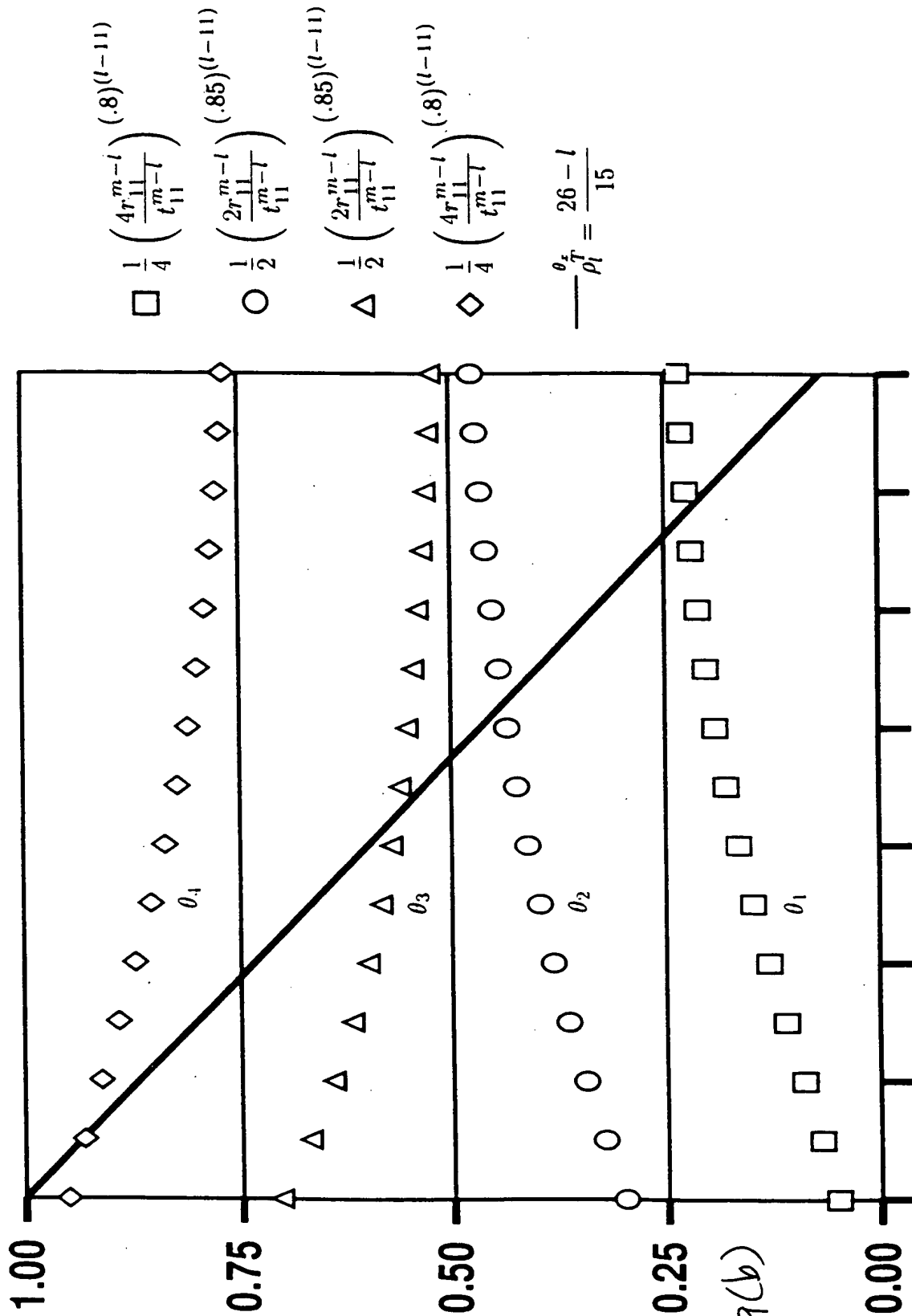


Fig. 9(b)



# Sample High Regard Data Set

1002

Sample User Data	
uid	User
1	gordon@cole.com
2	larry@marso.com
3	dale@cooper.com
4	laura@palmer.com
5	brian@litzinger.com

1004

Sample Rating Log			
uid	aid	iid	rating
1	2	1	0.74
1	3	2	0.95
1	3	3	0.95
1	4	4	0.71
1	4	5	0.71
1	4	6	0.71
1	5	7	0.03
2	1	8	0.13
2	1	9	0.13
2	5	7	0.39
3	1	8	0.27
3	1	9	0.27
3	4	4	0.065
3	4	5	0.065
3	5	7	0.795
3	5	10	0.795
4	2	1	0.92
4	5	7	0.65
4	5	11	0.65
5	1	8	0.59
5	2	1	0.44666667
5	2	12	0.44666667
5	2	13	0.44666667
5	3	2	0.91
5	4	4	0.03

1006

Sample Output of High Regard		
uid	User	HR
1	gordon@cole.com	0.285943744159
2	larry@marso.com	0.525147620373
3	dale@cooper.com	0.928946150922
4	laura@palmer.com	0.223508895679
5	brian@litzinger.com	0.635736019429

uid = identifier of person doing the rating  
aid = identifier of author of item being rated  
iid = identifier of item being rated  
rating = rating assigned to item iid by user uid  
HR = High Regard

Fig. 10

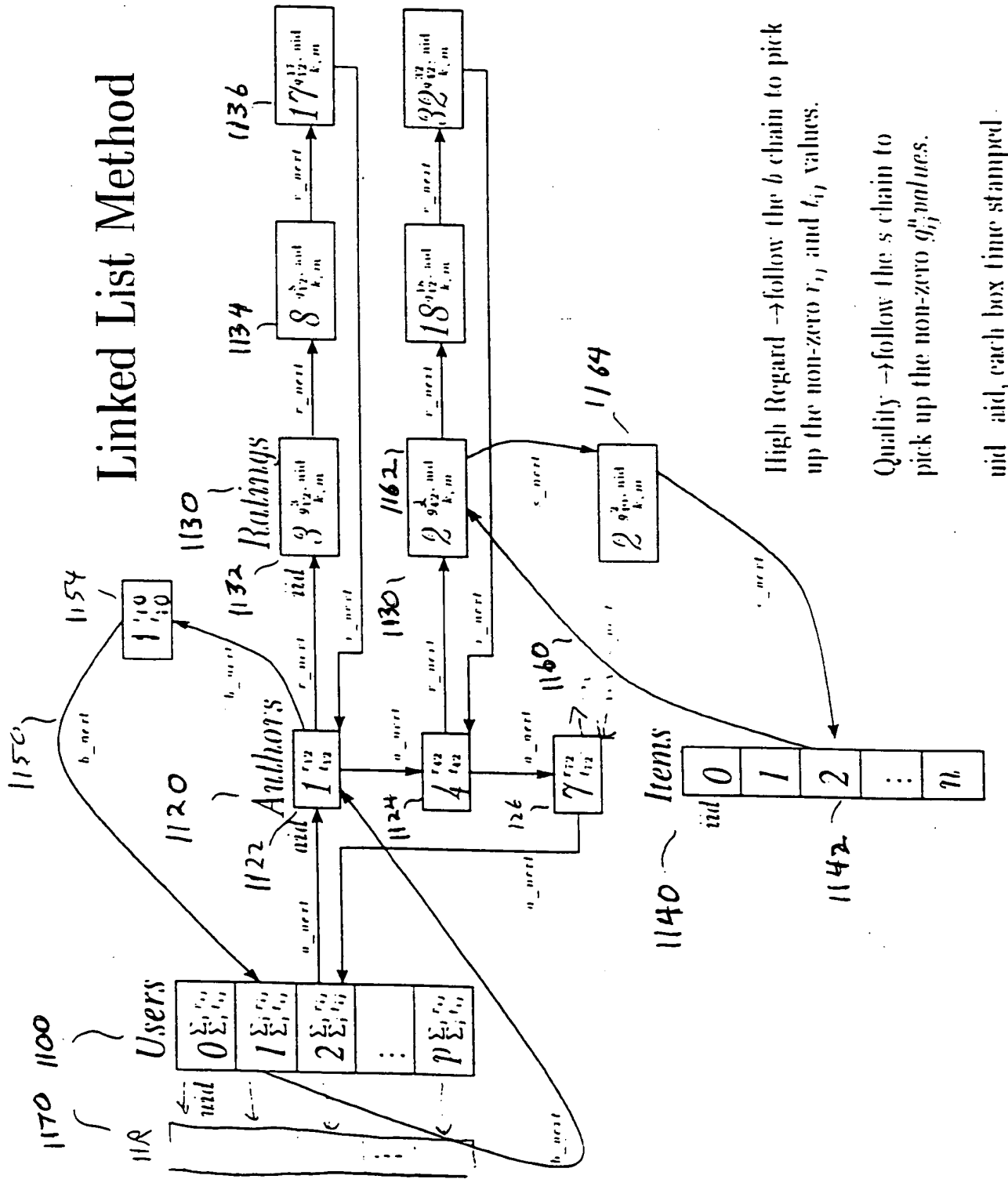


Fig. 11

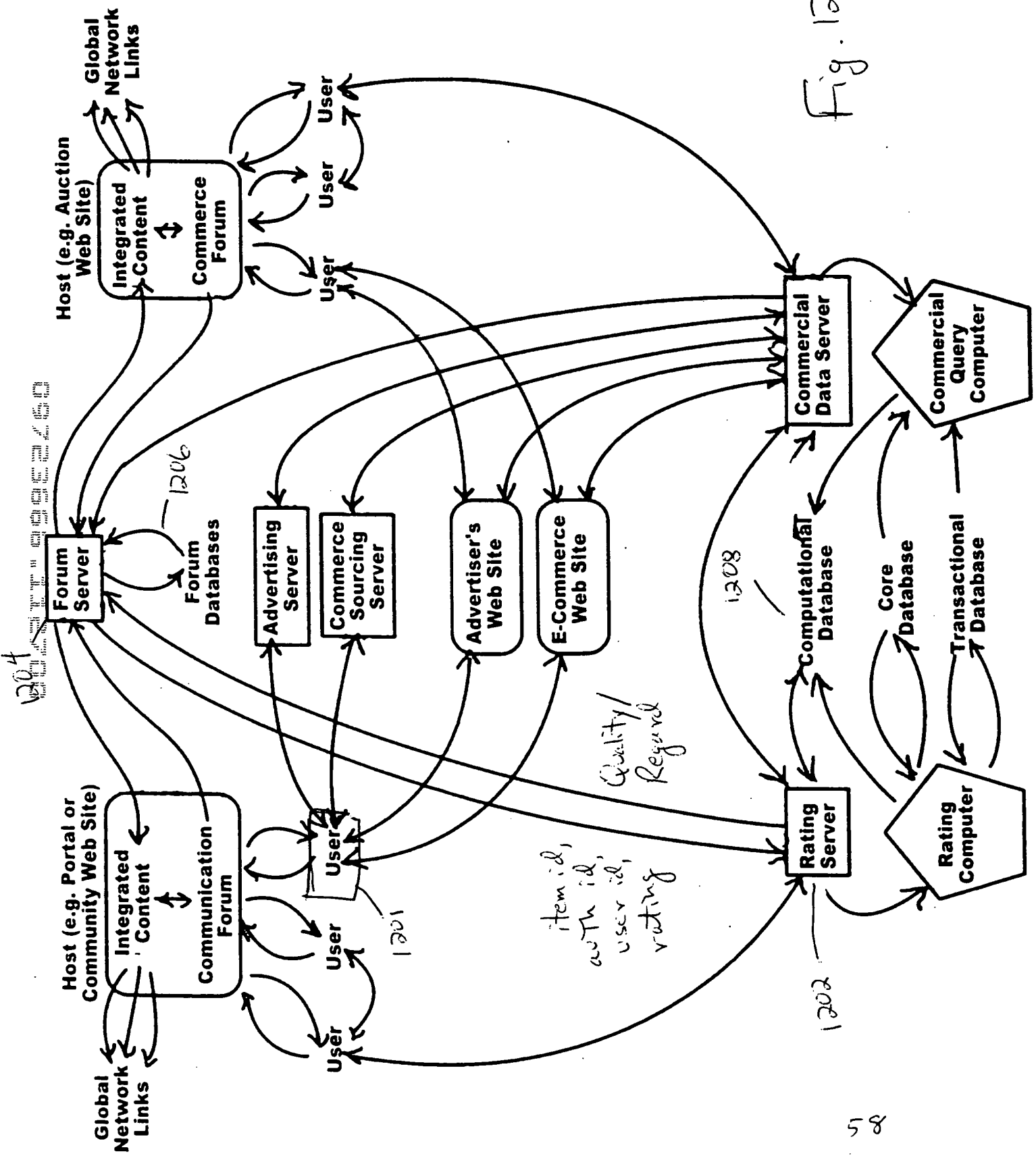


Fig. 12(a)

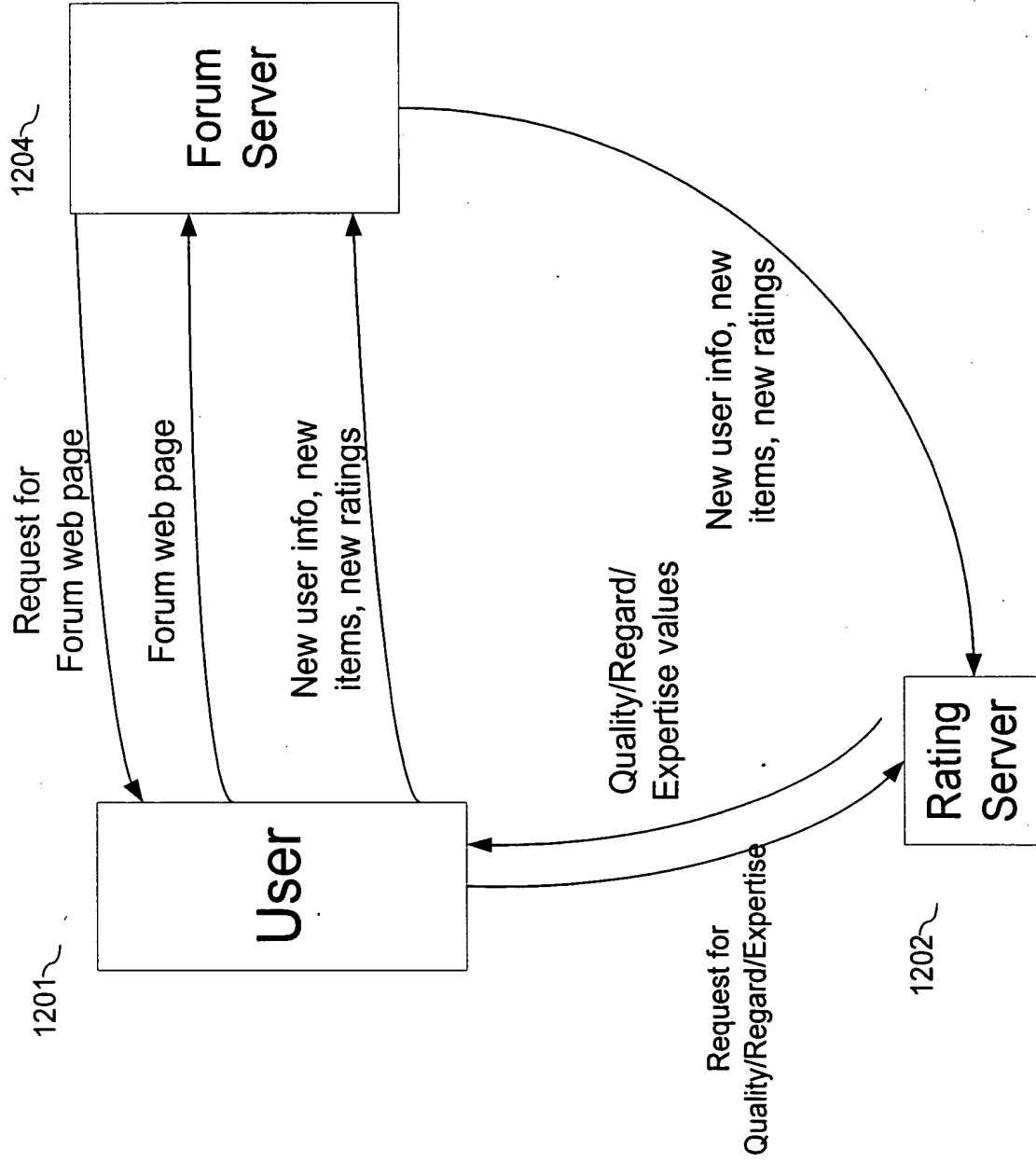


Fig. 12(b)

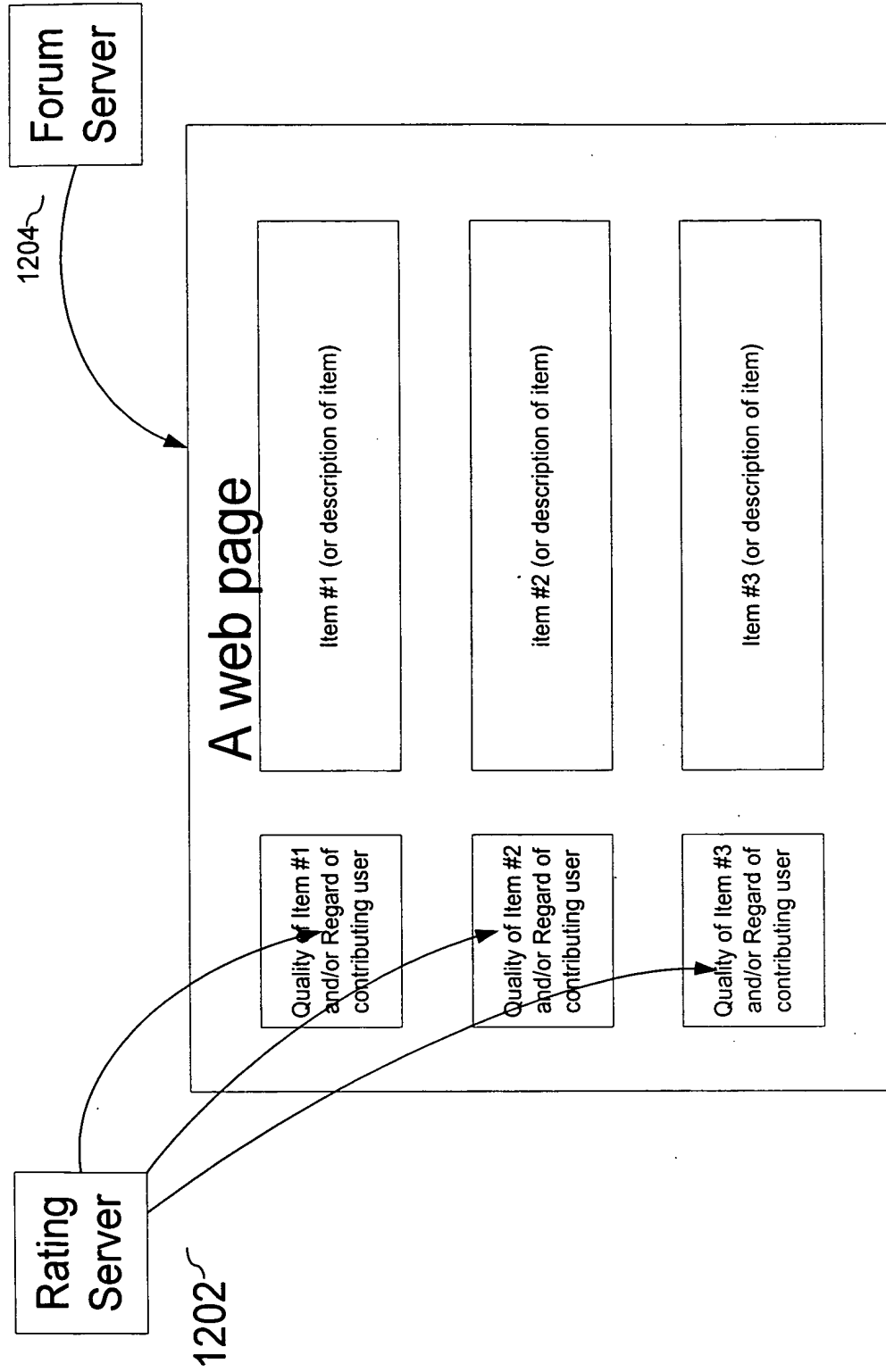
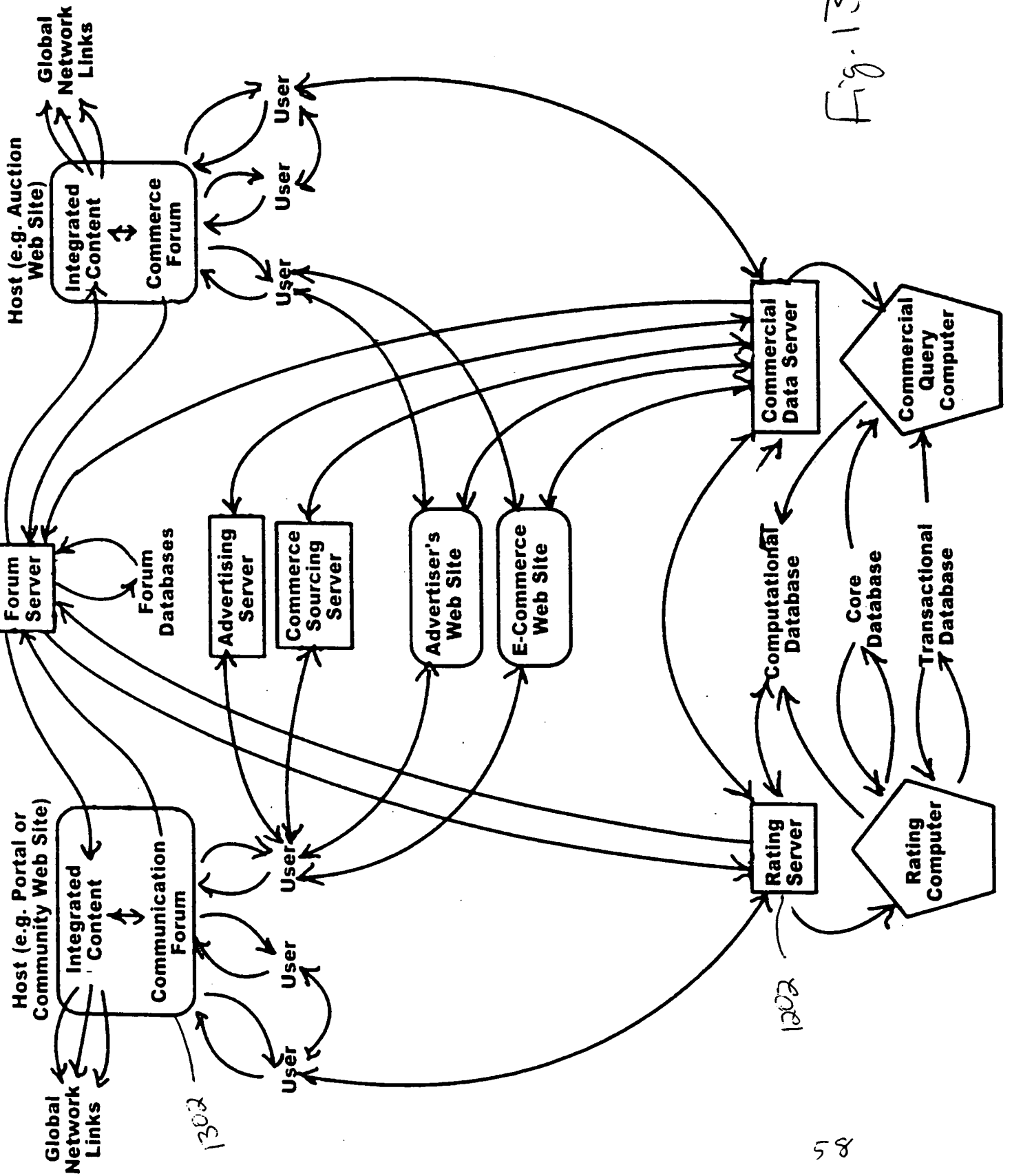


Fig. 12(c)

Patent 6,000,000



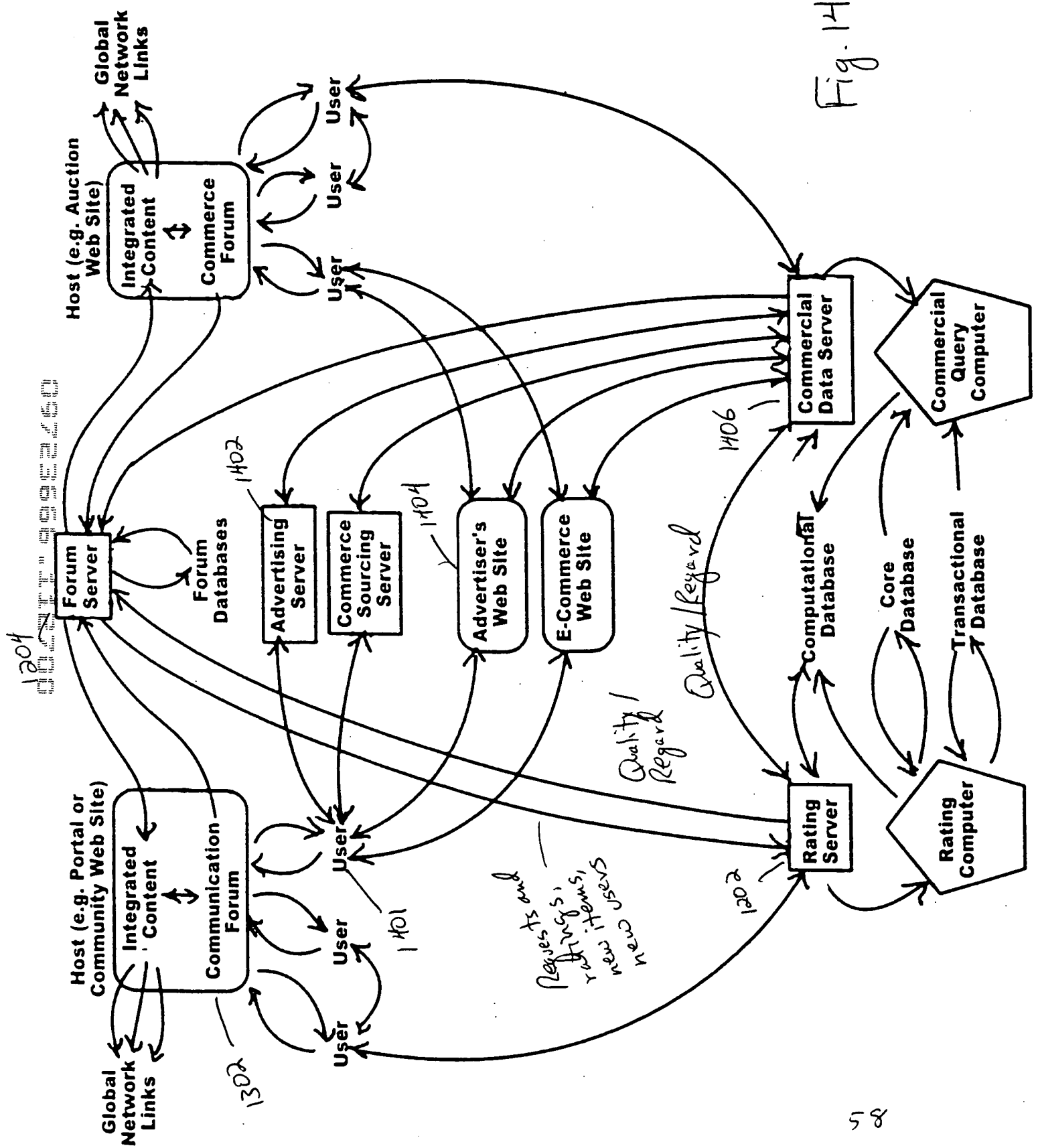
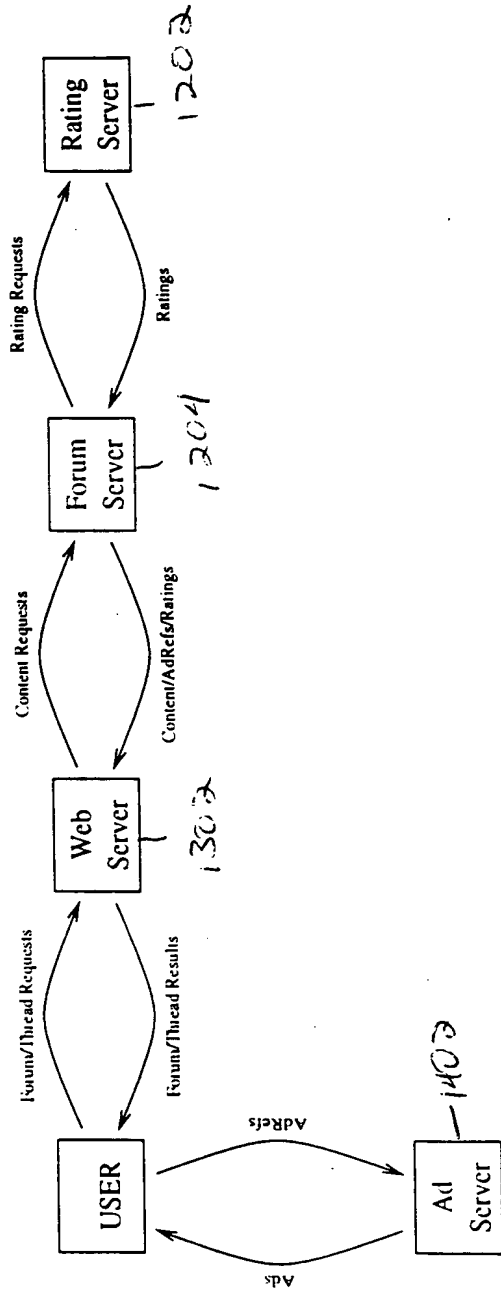
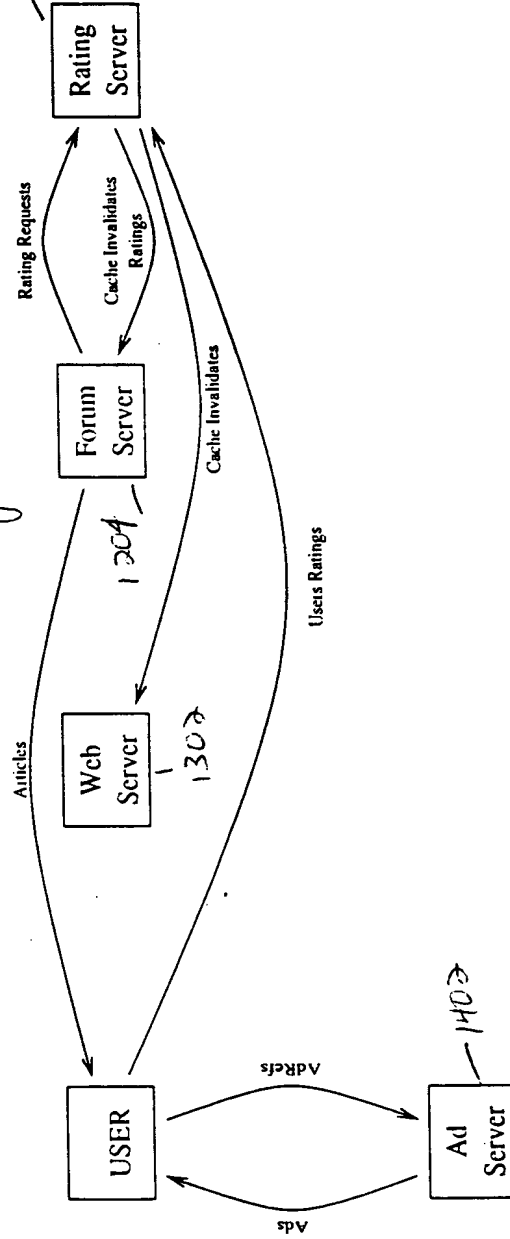


Fig. 14

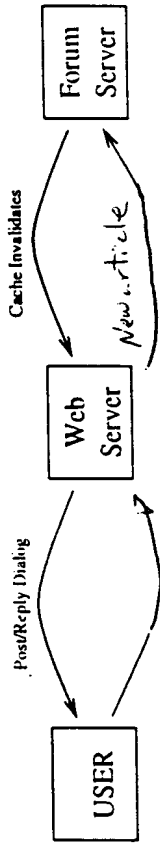
Cache in Cache 360 Fig. 15(a)



Article View Intercommunication - Fig. 15(b)



Post/Reply Intercommunication - Fig. 15(c)





# User Login

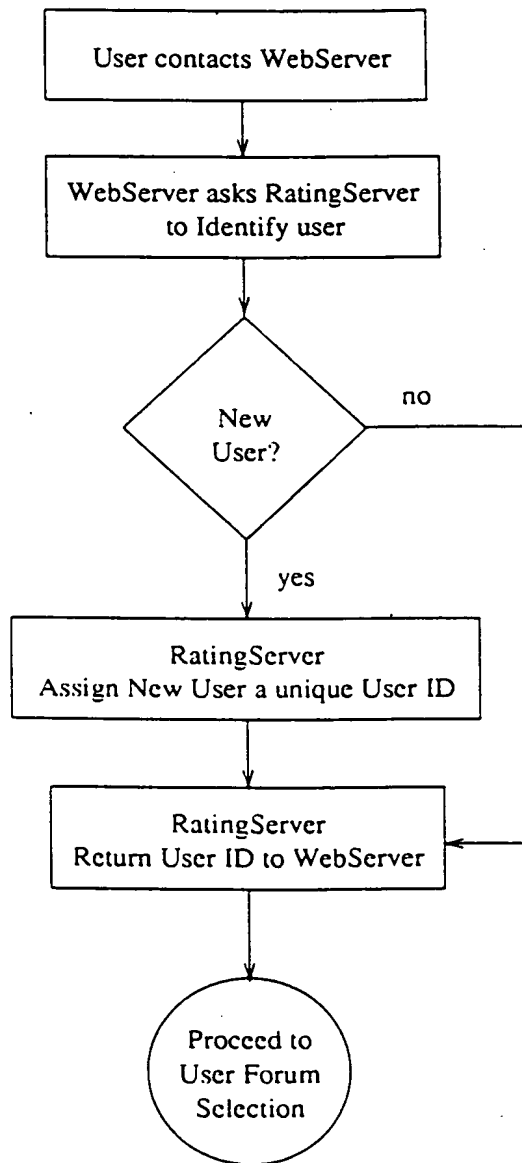


Fig. 16(a)

# User Forum Selection

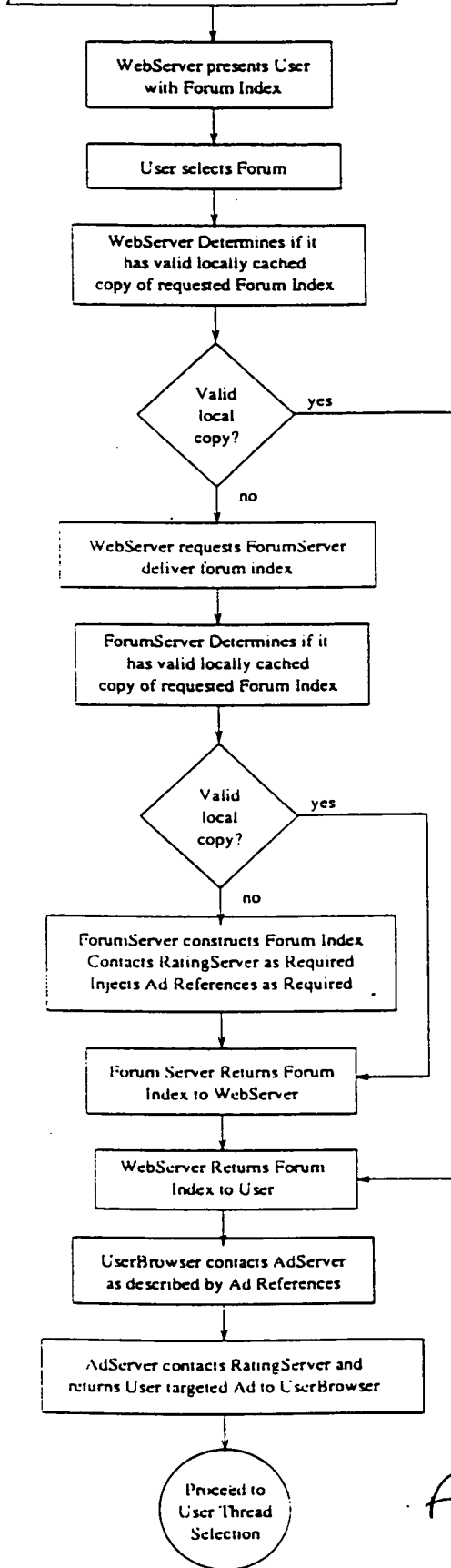


Fig. 16(b)

## User Thread Selection

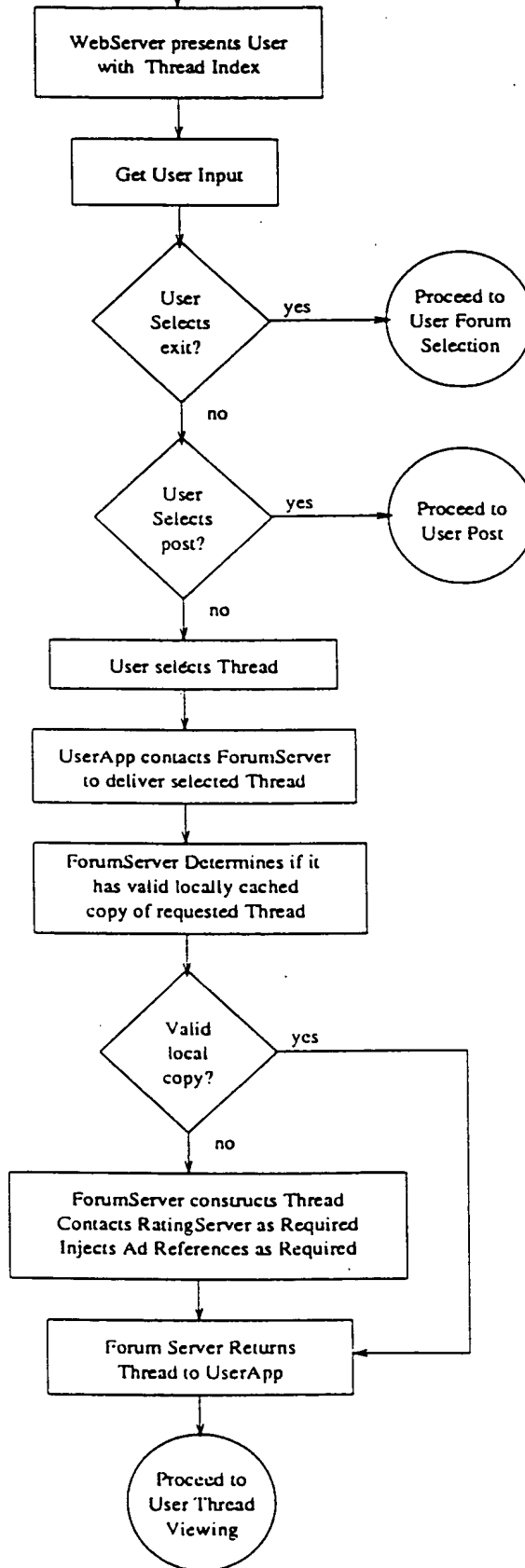


Fig. 16(c)

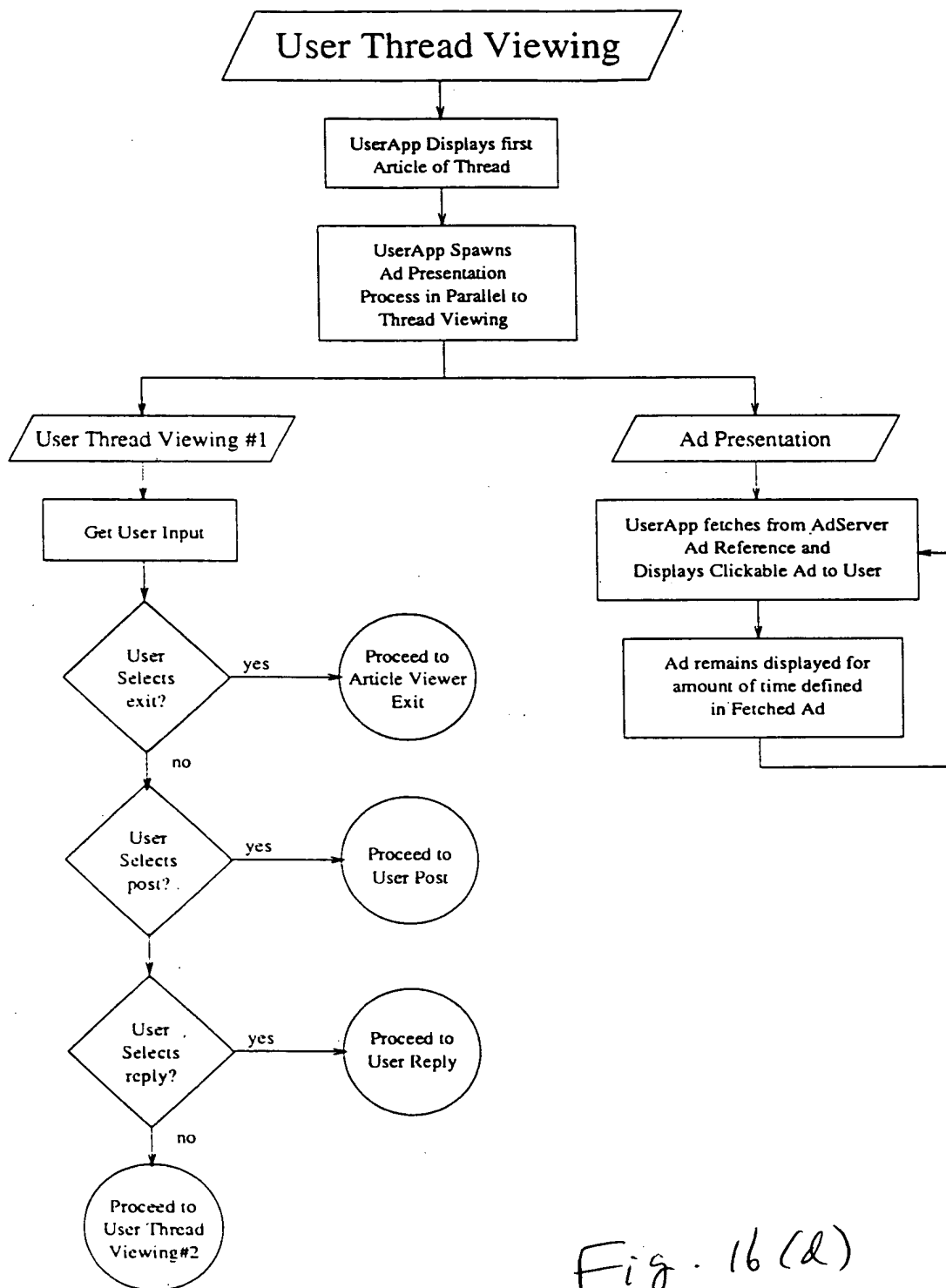


Fig. 16 (d)

## User Thread Viewing #2

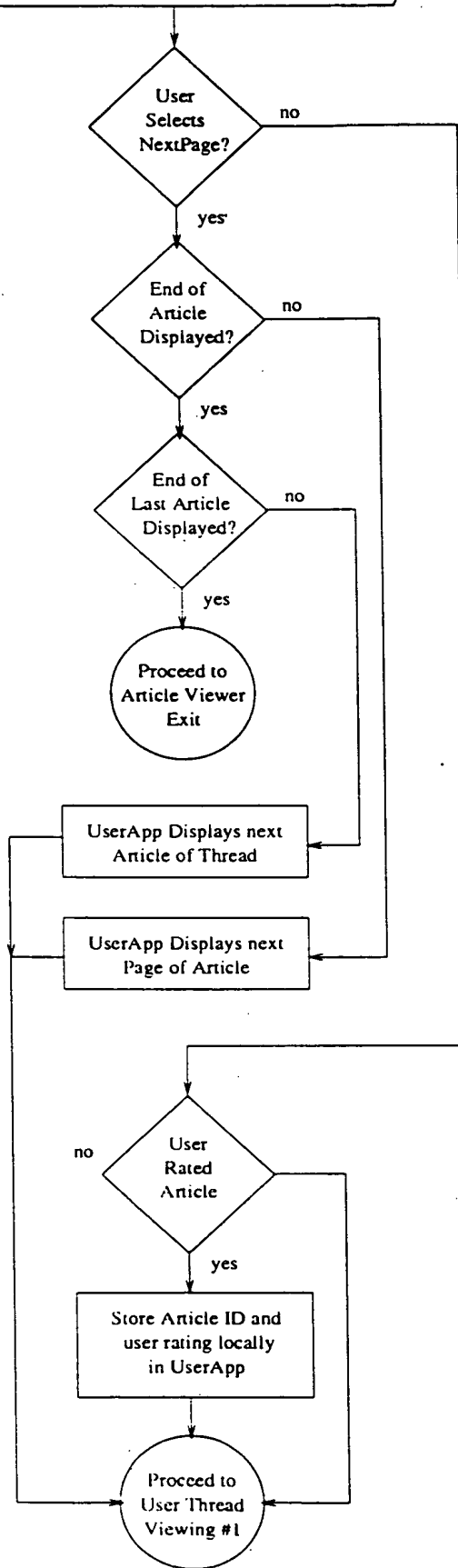


Fig. 16 (e)

```

graph TD
    Start([Article Viewer Exit]) --> Decision{User Ratings}
    Decision -- no --> End([Proceed to User Thread Selection])
    Decision -- yes --> Process1[Collected User Ratings of Articles are sent to RatingServer]
    Process1 --> Process2[RatingServer contacts ForumServer and invalidates cache related to current thread]
    Process2 --> Process3[RatingServer contacts WebServer and invalidates cache related to current thread]
    Process3 --> End
  
```

52

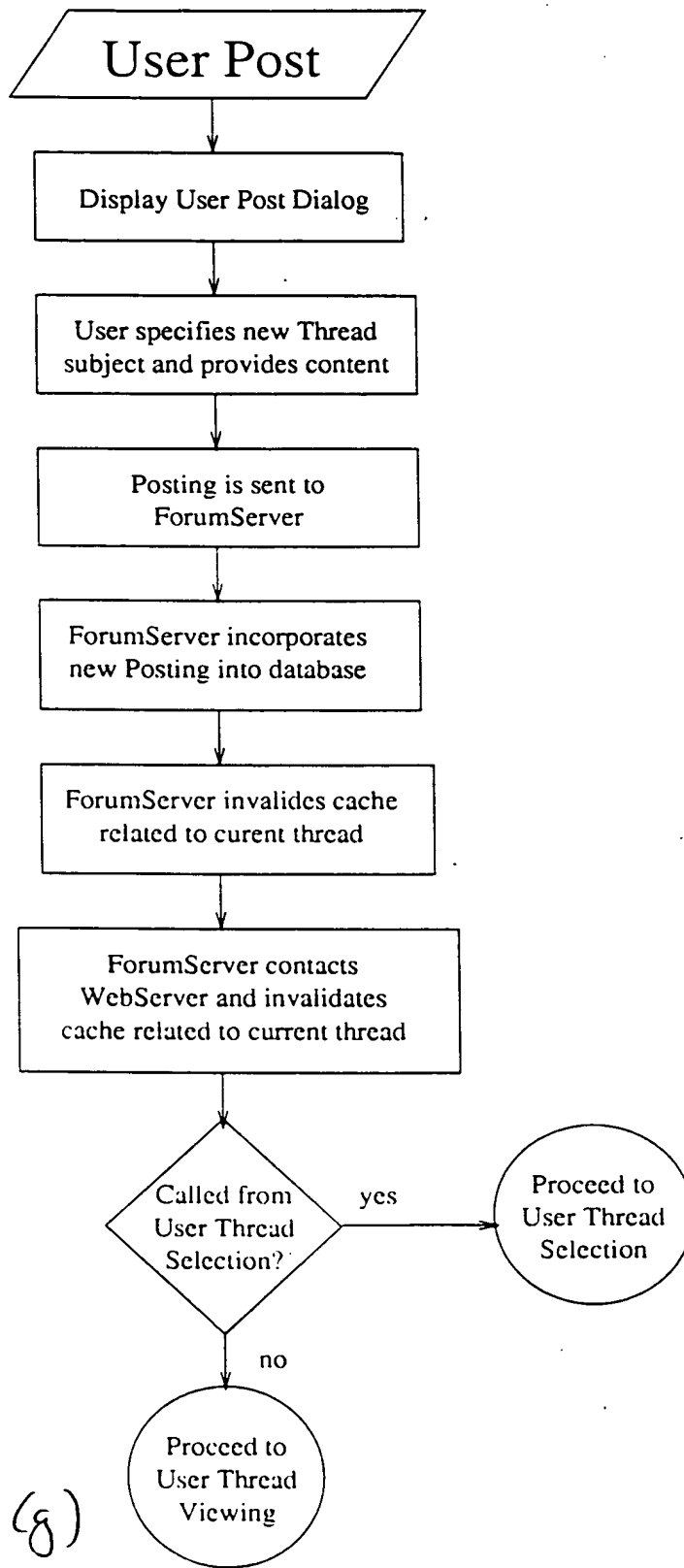


Fig. 16(g)

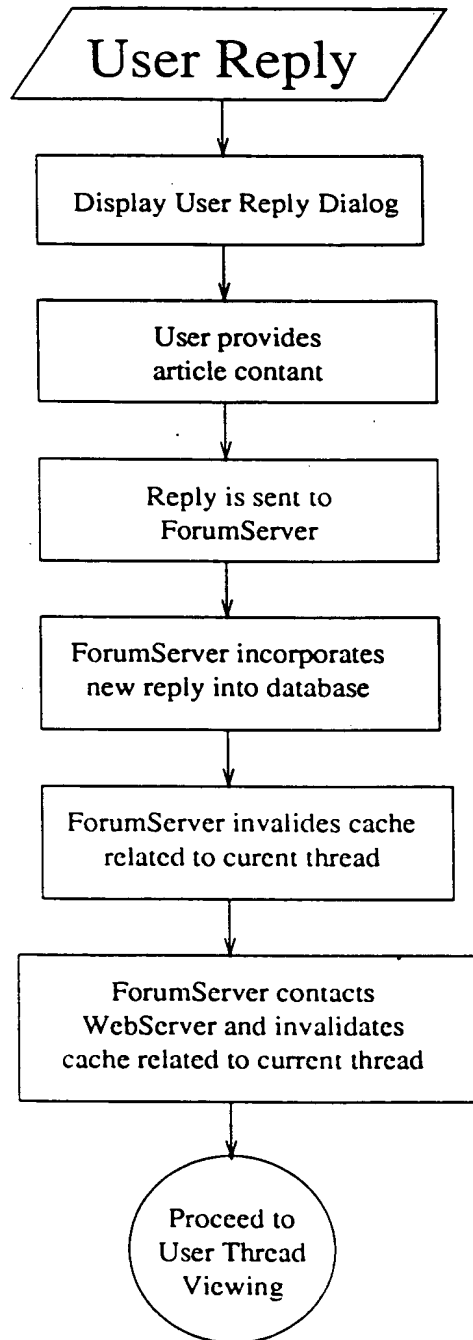
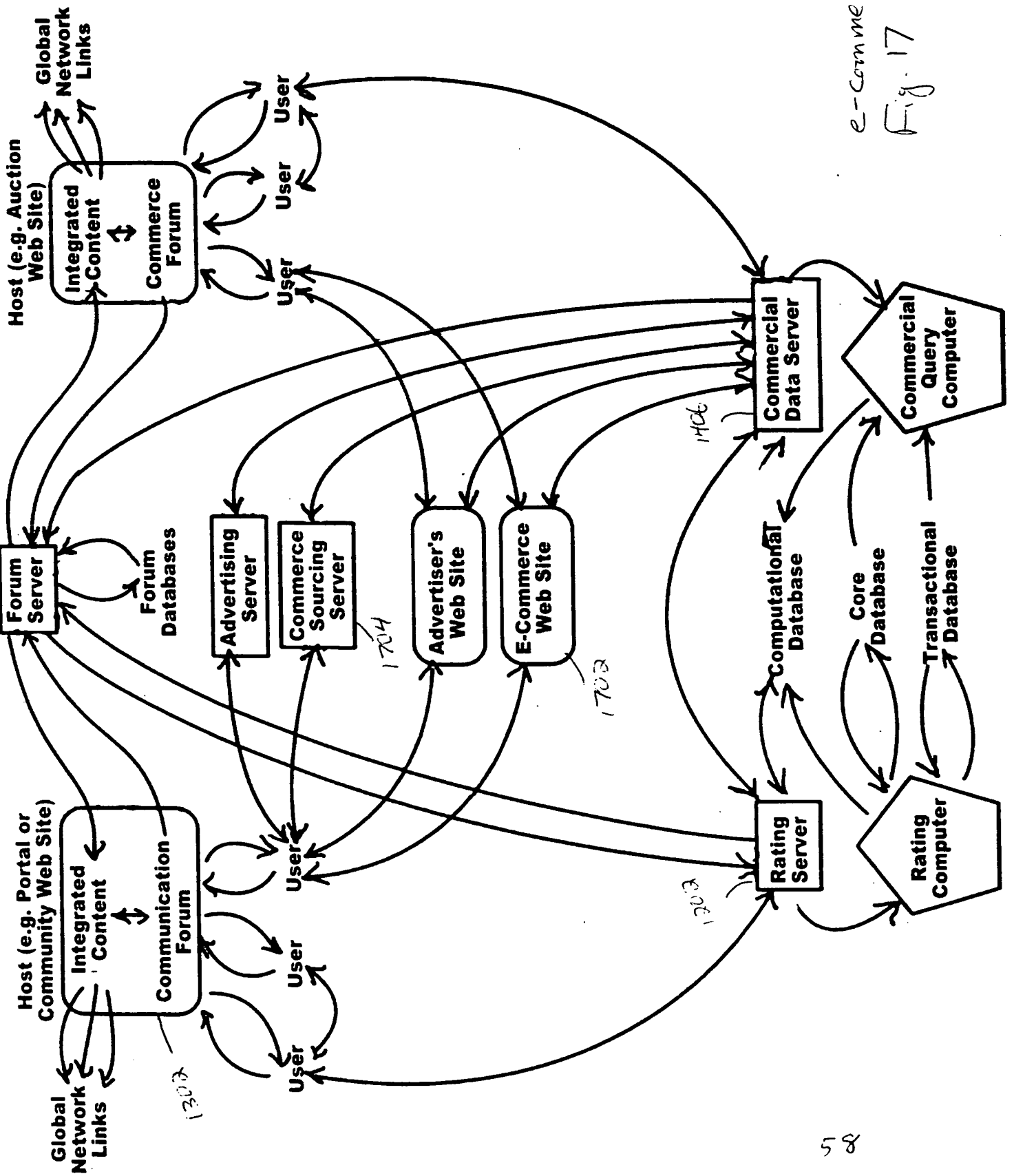


Fig. 16(h)

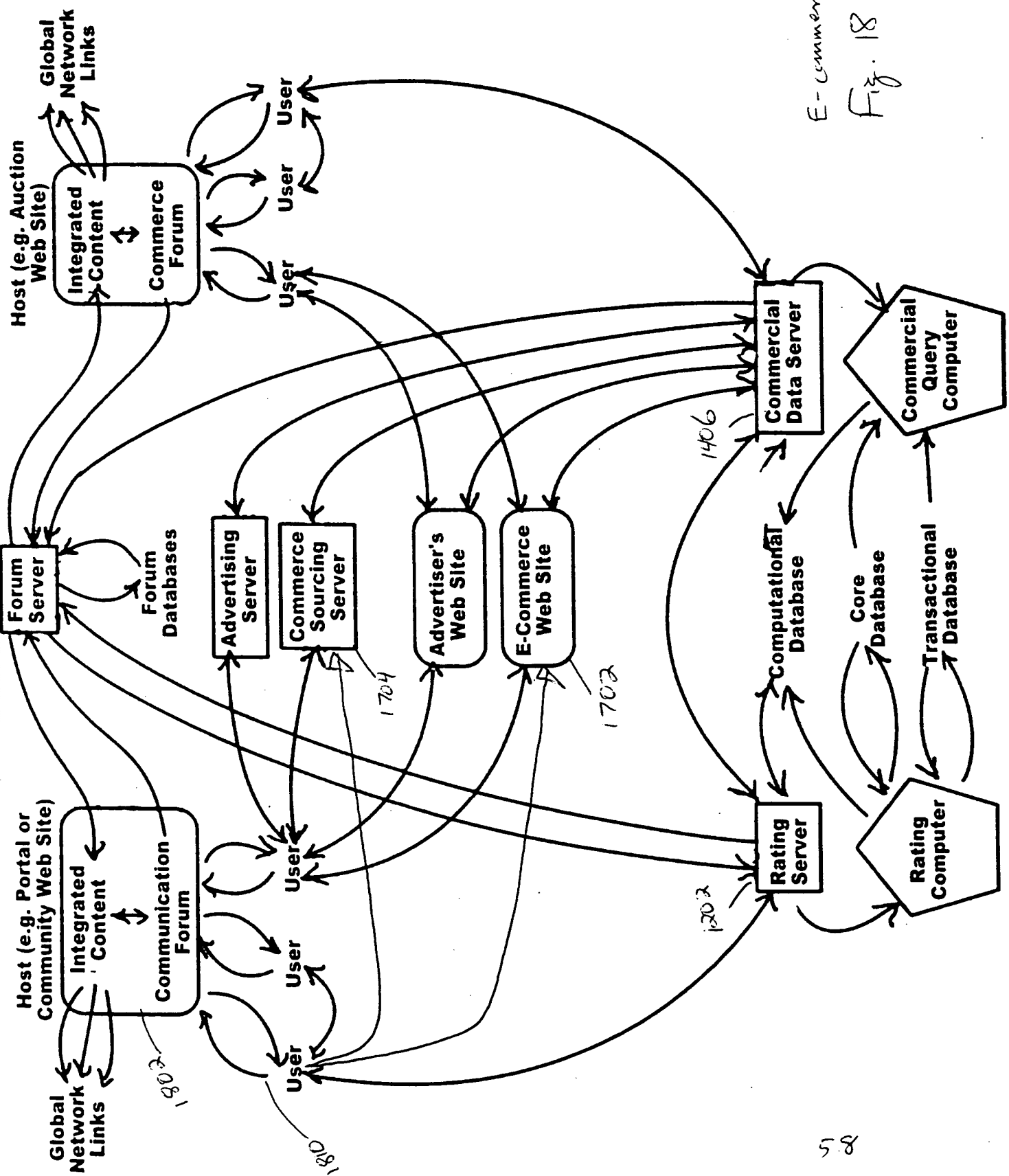


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Fig. 18

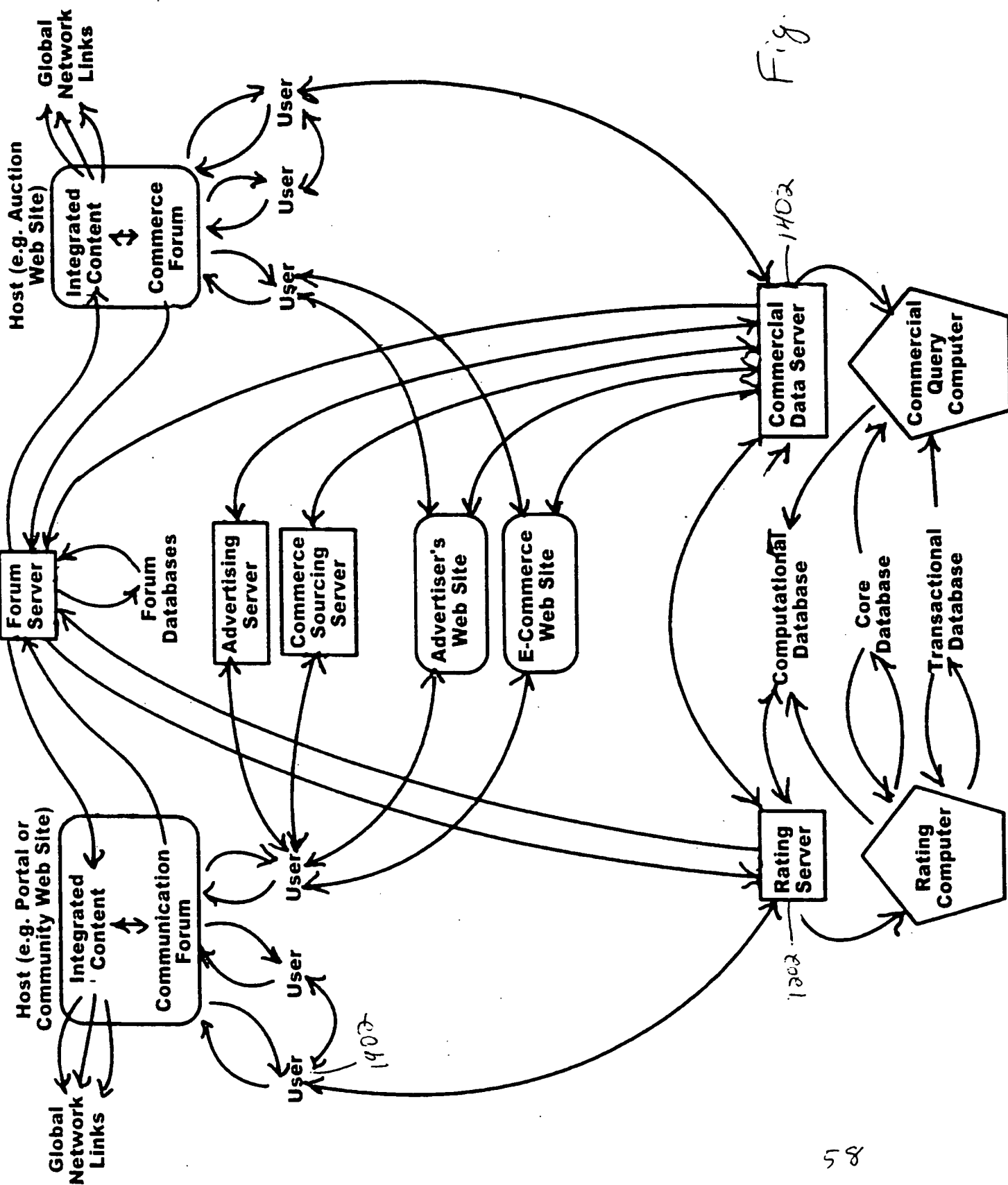
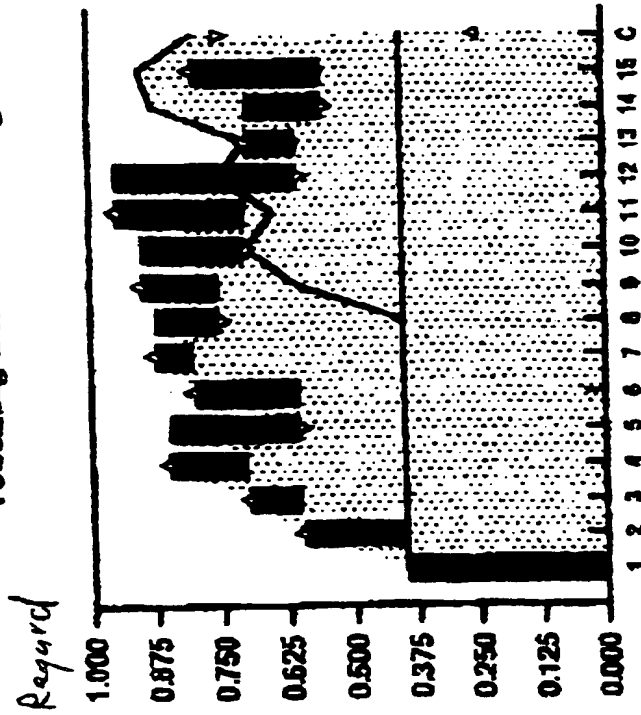


Fig. 19

# Vouching and Discrediting



Period	V or D	Adj. Regard	Quality	Max(R,Q)
1	Initial	0.400	Inertia	0.400
2	Vouch	0.600	Inertia	0.600
3	Vouch	0.700	Inertia	0.700
4	Vouch	0.850	Inertia	0.850
5	Discredit	0.600	Inertia	0.600
6	Vouch	0.800	Inertia	0.800
7	Vouch	0.875	Inertia	0.875
8	Discredit	0.750	Inertia	0.750
9	Vouch	0.900	0.600	0.900
10	Discredit	0.700	0.700	0.700
11	Vouch	0.950	0.650	0.950
12	Discredit	0.800	0.750	0.750
13	Vouch	0.700	0.700	0.700
14	Discredit	0.550	0.875	0.875
15	Vouch	0.800	0.900	0.900

Regard of User Considering  
 Whether to Vouch or Discredit: 0.250  
 Able to Vouch to: 0.250  
 Able to Discredit to: 0.750

Fig 20(b)

Fig 20(a)